THE INTERNATIONAL SUGAR JOURNAL

A TECHNICAL AND COMMERCIAL PERIODICAL
DEVOTED ENTIRELY TO THE SUGAR INDUSTRY

EDITED BY :
D. LEIGHTON, B.Sc., A.R.I.C.
M. G. COPE, A.I.L.(*Rus.*)

JANUARY TO DECEMBER
1960

VOLUME LXII

PUBLISHED AT
CENTRAL CHAMBERS
THE BROADWAY
LONDON, W.5
ENGLAND
1960

PANEL OF REFEREES

L. D. BAVER, Director, Experiment Station, H.S.P.A.

A. CARRUTHERS, Director of Research, British Sugar Corporation Ltd.

F. M. CHAPMAN, Technical Adviser, London Refineries, Tate & Lyle Ltd.

J. EISNER, Technical Adviser, Booker Bros. McConnell & Co. Ltd.

P. HONIG, Technical Research Director, West Indies Sugar Corporation.

J. CAMPBELL MACDONALD, Chief Technical Officer, British Sugar Corp. Ltd.

H. C. S. DE WHALLEY, Consultant, Tate & Lyle Ltd.

O. WIKLUND, Swedish Sugar Corporation.

ERRATA and CORRIGENDA

Page 102. Line 5 of column 2. Read "Schiweck" for "Schwieck".
Page 122. Line 36 of column 2. Read "Ilaga" for "Ilagan".
Page 136. Line 3 of column 1. Read "R. M. McCready" for "R. E. McCready".
Page 159. In title. Read "Northern" for "Southern".
Page 166. Line 26 of column 2. Read "Z. I. Tóth" for "I. Tóth-Zsiga".
Page 168. Line 31 of column 2. Read "Paratella" for "Paratello".
Page 228. Line 19 of column 1. Read "increase" for "decrease".
Page 229. Last line of column 2. Read "*I.S.J.*, 1960, **62**, 228", for "*I.S.J.*, 1960, **62**, 155".
Page 288. Line 42 of column 1. Read "Polyelectrolytes" for "Polysaccharides".
Page 353. Line 36 and last line of column 2. Read "Schiweck" for "Schiwek".

MADE AND PRINTED IN ENGLAND
BY
JOHN ROBERTS & SONS
SALFORD
MANCHESTER

INDEX TO VOLUME LXII

SOME REMARKS ON ITS USE.

In using this Index it should be noted that the principal entries cover the several stages of production : CULTIVATION (*see* Beet; Cane; Diseases; Fertilizer; Irrigation; Mechanization; Pests; Soil; Transport; Varieties; Weed Control, etc.); SUGAR PROCESSING (*see* Bagasse; Boilers; Boiling; Carbonatation; Centrifugals; Clarification; Crystallization; Diffusion; Evaporators; Filter; Massecuite; Mills; Milling; Molasses; Pans, Vacuum; Scale; Sucrose; Sugar; Sugars; Sulphitation; Water, etc.); REFINING (*see* Carbon; Refinery; Refining; White Sugar, etc.); and BY-PRODUCTS (*see* Alcohol; Animal Fodder; By-Products; Dextran; Fermentation; Paper; Pulp; Yeast, etc.).

Subjects covered separately include Ash; Bulk Handling, and Bulk Storage; Colour; Control, automatic and chemical; Countries; Gur; Ion Exchange; Juice; Micro-Organisms; pH; Polarization; Weighing, etc. Glucose and Fructose are to be found under Dextrose and Levulose. Moisture is given under Water. Obituaries, Statistics and Trade Notices are collected together under those headings. "Sucrose" implies the pure chemical; "Sugar" the commercial product; and "Sugars" the chemical family, rather than grades of sugar. When looking under the author's name, it should be remembered that the surname may be the penultimate in Spanish.

(Abs.) indicates *Abstract*; (Brev.), *Brevity*; (B.B.), *Books and Bulletins*; (Corr.), *Correspondence*; (H.M.-L.), *Dr. Martin-Leake*, our Agricultural Editor; (N.C.), *Note and Comment*; (Pat.), *Patent*; (Stat.), *Statistics*; (T.N.), *Trade Notice*.

SUBJECT MATTER.

PAGE

Acetone-butanol fermentation of cane juice. E. Viciedo P. (Abs.) 75
Aconitic acid: as scale inhibitor. K. Löwy. (Abs.) 45
Adsorption, *see* Bone char *and* Carbon
Affination: D. V. Umarov and I. F. Zelikman. (Abs.) 132
automatic control at Victorias refinery. E. F. Gamboa. (Abs.) .. 289
massecuite pre-washing. J. Bures *et al.* (Abs.) 72
Afghanistan: sugar production. (Brev.) 83
Alcohol:
from cane. E. A. Vázquez. (Abs.) 143
in liquid feed. Anon. (Abs.) 109
production. Usines de Melle. (Pat.) 232
see also Distillery *and* Fermentation
Aluminium: alloys corrosion tests. I. Paulik. (Abs.) 321
American Sugar Refining Co.: 1959 report. (N.C.) 150
Amino acids:
in beet juices. V. Prey *et al.* (Abs.) 52
determination. V. Prey *et al.* (Abs.) 170
reaction with glucose and fructose. T. Shimizu and S. Sakai. (Abs.) 164
and white sugar colour. V. Prey *et al.* (Abs.) 326
see also Betaine, Glutamic acid *and* Nitrogen
Animal fodder:
M. B. Gillis. (Pat.) 110
E. C. Kunz. (Pat.) 111
bagasse-molasses. (Brev.) 267
– – P. B. Brown *et al.* (Abs.) 75
beet leaves. H. J. Röstel and W. Wöhlert. (Abs.) 328
– – drying. E. Pötke. (Abs.) 328
blackstrap molasses. S. L. Crochet 75
cane tops and trash. E. A. Bragadín and H. B. Díaz. (Abs.) 7
dehydrated cane juice. (Brev.) 147
enriching "Betfor" with protein. S. Nordfeldt. (Abs.) 109
fodder cane in Australia. K. J. Mead and J. B. Noonan. (Abs.) 35
mobile dehydrator. J. C. Chou .. 263
molassed pulp—carbonatation muds. H. Horning. (Abs.) 260
molasses. F. Grossman. (Pat.) 53
– N. F. Kruse. (Pat.) 329
– A. May. (Abs.) 109
– J. G. J. van Ginneken. (B.B.) .. 197
– determination. K. Cihal and L. Schmidt. (Abs.) 24
"Morea" liquid feed. Anon. (Abs.) 109
protein in molasses. B. Eriksson .. 75
"Sepa" process. R. Loserth. (Abs.) 263
C-sugar. G. E. Combs *et al.* (Abs.) 328
– content. S. Hoflund and O. Svanberg. (Abs.) 143
yeast from molasses. J. P. Shukla and B. D. Kapoor. (Abs.) 172
Antigua Sugar Factory Ltd.: report 1958/59. (Brev.) 28
Applied chemistry: Progress Reports, Vol. XLIII. (B.B.) 227
– – Vol. XLIV. (B.B.) 325
D-Arabitol fermentation of high-test molasses. O. Lavin and J. W. Holloway. (Pat.) 265

PAGE

Argentina:
application to join International Sugar Agreement. (Brev.) 299
beet sugar plans. (Brev.) 84
cane smut. W. E. Cross 239, 271
early maturing cane varieties. R. F. de Ullivari and C. M. Guerineau 7
Farrel-Birmingham Co. Inc. cane mill. (Brev.) 330
mill modernization. (Brev.) 235
Sugar Bill. (Brev.) 299
sugar crop 1959. (Brev.) 148
– – 1960. (Brev.) 268
– factory project. (Brev.) 27
– industry reorganization. (N.C.) 178
production restrictions eased. (Brev.) 363
varietal yield. W. E. Cross 87
Ascorbic acid: addition to refined sugar. V. A. Chernednik and E. A. Gusev 46
Ash:
beet juice softening by ion exchange. J. Buriánek and F. Durdík. (Abs.) 196
– – – F. Durdík and J. Buriánek 166
calcium and sodium in beet molasses. V. A. Tsirul'. (Abs.) 358
carbonate in carbonatation juice. E. Valkovszky. (Abs.) 142
determination by ion exchange. J. Buriánek and D. Slechtová 171
ionic calcium determination in cane juices. P. Hidi and R. I. Nicholson 9
iron in refinery products. Y. Matsuda 200
lime salts control. W. Krüger. (Abs.) 141
potassium imido-disulphonate in white sugar. W. H. Parker 313, 339
removal with bone char. A. Gee .. 46
– from cane molasses. A. M. Gad and A. S. El-Nockrashy. (Abs.) 18, 46
– by electrodialysis. M. Leszko .. 324
– with granular adsorbents. N. L. Pennington. (Abs.) 73
Australia:
bacterial mottle pathogen. W. J. Dowson and A. C. Hayward 275
building bricks from sugar. (Brev.) 300
bulk handling. E. R. de Luzuriaga 289
cane agriculture. (H.M.-L.) 31, 151
Colonial Sugar Refining Co. Ltd. report 1959/60. (N.C.) 238
– – research centre 212
fodder cane. K. J. Mead and J. B. Noonan. (Abs.) 35
Mourilyan terminal. (Brev.) 332
Queensland cane crushing season 1959. (N.C.) 57
raw sugar sale to Canada. (Brev.) 349
Sugar Year Book 1960. Anon. (B.B.) 197
Austria: sugar factory expansions .. 28
beet loading. K. Peisker. (Abs.) .. 225
Automation, *see* Control, Automatic

Bag: filling. (T.N.) 113
– M. I. Bindman. (Abs.) 196
– V. A. Chernednik and B. G. Kolesnik. (Abs.) 18
Bagasse:
analysis. S. R. Pathak and V. R. Srinivasan. (Abs.) 328
animal fodder. (Brev.) 267
– – P. B. Brown *et al.* (Abs.) 75

PAGE

Bagasse:
board manufacture. J. D. Morgan 77
– – in Cuba. Anon. (Abs.) 109
– – in Taiwan. O. Wyss. (Abs.) .. 172
– water coolers. Anon. (Abs.) 75
dryer. B. B. Bandi. (Abs.) 352
as fertilizer. W. L. Owen. (Abs.) 89
pith separation. W. J. Nolar. (Pat.) 110
utilization research in Hawaii. Anon. 143
weighing. G. Lord and C. W. Davis 245
see also Furnaces, Paper *and* Pulp
Beet:
analysis. I. Holly. (Abs.) 199
calcium and sodium determination. V. A. Tsirul'. (Abs.) 358
chemical changes in storage. O. V. Braun. (Abs.) 108
composition in Japan. M. Komoto *et al.* (Abs.) 200
cossette surface and thickness determination. A. Y. Zagorul'ko .. 359
cultivation in Siberia. (Brev.) 83
European sugar production estimates 301, 331
factory operation and automation. E. Dormal. (Abs.) 19
flume performance. V. N. Peletminskii. (Abs.) 291
frozen storage of samples. A. Ulrich and K. Ohki. (Abs.) 359
glutamic acid decarboxylase. S. Böttger and W. Steinmetzer .. 261
glutamine and sucrose content. J. Vellard. (Abs.) 49
interplanting with rice and cane. H. Chang 242
irradiation effect on sucrose content 319
knives and holders. G. Pohle. (Abs.) 258
laboratory equipment. W. Wöhlert 290
leaves drying. E. Pötke. (Abs.) .. 328
– as fodder. H. J. Röstel and W. Wöhlert. (Abs.) 328
marc content determination. I. Holly. (Abs.) 326
optimum campaign length in Poland. S. Zagrodzki. (Abs.) 323
plasmolysis. B. Nowakowski. (Abs.) 104
pol losses. A. Pasetti. (Abs.) 168
– – K. Vukov. (Abs.) 226
polyploids. J. Rasmusson. (Abs.) .. 35
processing laboratory. A. I. Morgan *et al.* (Abs.) 293
raffinose and kestose content during storage. M. Z. Khelemskii *et al.* 358
rasp. A. Drabikowska. (Abs.) 199
re- and unloading. K. Peisker 225
seed drilling. (H.M.-L.) 335
slicing. P. S. Sichevoi. (Abs.) 167
– automatic control. N. R. Frepon 137
sodium content and ripeners. H. Lüdecke and M. Nitzsche. (Abs.) 47
sucrose determination. H. Hirschmüller and H. Hörning. (Abs.) .. 52
– – H. Hörning and H. Hirschmüller. (Abs.) 107
– extraction. A. Bonelli. (Abs.) .. 103
– – Friedrich Uhde G.m.b.H. (Pat.) 76
sugar industry in Ontario. (Brev.) 332
– losses in storage. O. Neeb and H. Grupe. (Abs.) 353
tail processing. H. Mühlforte .. 104
– – K. Rais *et al.* (Abs.) 166

INDEX

PAGE

Beet:
tare determination. P. N. Shemyakin. (Abs.) ... 357
– house at Haldensleben. G. Kling ... 199
total acid determination. K. Bohn ... 108
trials in Hawaii. (Brev.) ... 235
unloading and storing. S. E. Fridman. (Abs.) ... 20
– – N. D. Grishchenko. (Abs.) ... 49
– – H. Matheis and P. Berger ... 165
– – V. A. Novikov and N. M. Kichigin. (Abs.) ... 20
– – L. Palestro. (Abs.) ... 20
volatile acids content. H. D. Wallenstein. (Abs.) ... 142
washer. L. S. Izrailevich. (Abs.) ... 194
– feed control. S. Zagrodzki and J. Dobrzycki. (Abs.) ... 104
– power requirements. N. R. Frepon ... 257
– stone-catcher. S. Winkler. (Abs.) ... 196
wilting. S. Vajna. (Abs.) ... 193
see also Diffusers, Diffusion, Diseases, Glutamic acid, Juice, Mechanization, Molasses, Pulp, Saponins, Storage *and* Water, Waste
Belgium: sugar crop 1959/60 (Brev.) ... 176
sugar factory for U.S.S.R. (Brev.) ... 97
Betaine: determination. O. Szabolcs and V. Prev. (Abs.) ... 107
plant at Ercsi factory. K. Hangyál and I. Radics. (Abs.) ... 167
Boiler: (T.N.) ... 234
at Central Romana. P. M. Graham ... 287
feed water salt traces. S. Zagrodzki and H. Zaorzka. (Abs.) ... 108
– – sugar determination. G. Zieglgansberger. (Abs.) ... 290
– – treatment. P. T. Dunaev ... 357
– – – G. Ramchander. (Abs.) ... 144
test indicator. (T.N.) ... 174
Boiling:
G. Malaguzzi-Valeri. (Abs.) ... 20
A-molasses *vs.* syrup graining. J. P. Sto. Domingo. (Abs.) ... 100
automatic control. S. V. Dykhne and A. Y. Zubov. (Abs.) ... 133
– – E. A. Gusev. (Abs.) ... 289
effect of sodium phosphate. V. M. Pertsel' *et al.* (Abs.) ... 224
fondant seeding. K. H. Parekh ... 351
heat transfer coefficient. H. Okita "Kristalloskop" instrument. Z. Wlassics. (Abs.) ... 323
low-grade massecuite. P. V. S. Sastry. (Abs.) ... 352
massecuite crystal content. V. D. Popov and I. G. Bazhal. (Abs.) ... 141
mechanical circulation. W. T. Abercrombie. (Abs.) ... 17
– – J. H. Nickling and R. F. Beale ... 255
molasses viscosity. A. M. Zabolotskaya. (Abs.) ... 72
– – reduction with $CaCl_2$. Z. I. Tóth ... 49
pan feed control. S. Mochizuki ... 192
supersaturation control. B. D. Sockhill and P. G. Wright. (Abs.) ... 254
– – by "Cuitonieter". Anon. (Abs.) ... 21
– variations. D. H. Foster *et al.* ... 254
three-massecuite system. D. E. Batenga and P. H. Sing. (Abs.) ... 289
see also Pans, Vacuum
Bolivia: sugar production. (Brev.) ... 235, 332
Bone char:
abrasion hardness. F. G. Carpenter ... 52
colour and ash removal. A. Gee ... 46
– – – E. D. Gillette. (Abs.) ... 45
– – – theories. W. V. Loebenstein ... 73
column performance. R. S. Bowman and M. Malanchuk. (Abs.) ... 73
– – N. L. Pennington. (Abs.) ... 73
lye test photometric determination. K. Lowy. (Abs.) ... 73
organic anions removal. V. R. Deitz and H. M. Rootaye. (Abs.) ... 73
sucrose retention. F. G. Carpenter ... 73
5th Technical Session Proceedings, 1957. V. R. Deitz. (B.B.) ... 23
Nichols-Herreshoff kiln at Montreal. W. A. R. Allen. (Abs.) ... 45
settling. E. J. Grant and L. L. Manning. (Abs.) ... 45
sweetening-off. E. J. Culp and M. Dmitrovsky. (Abs.) ... 45
– – H. G. Gerstner and G. P. Meade ... 45
"Synthad" mixture carbon content and colour removal. F. W. Schwer *et al.* (Abs.) ... 45
Booker Bros. McConnell & Co. Ltd.: acquisition of Innswood Estate Ltd. (Brev.) ... 300
report 1959. (N.C.) ... 177
Brakes: magnetic. (T.N.) ... 81

PAGE

Brazil:
bagasse paper production plans ... 236
sugar exports ... 56, 235
– production 1958/59. (Brev.) ... 27
British Commonwealth:
and Europe. Anon. (B.B.) ... 292
fertilizer production and use. Anon. ... 325
Sugar Agreement. (N.C.) ... 1, 333
British East Africa, *see also* Kenya, Tanganyika *and* Uganda
British Guiana:
Booker Bros. McConnell & Co. Ltd. 1959 report. (N.C.) ... 177
cane agriculture. (H.M.-L.) ... 89
soil water content and cane growth. B. Walker. (Abs.) ... 336
sugar industry. (B.B.) ... 105
sugar production 1959. (Brev.) ... 98
British Honduras:
cane industry. Anon. (Abs.) ... 122
factory plans. (Brev.) ... 299
sugar production 1958/59. (Brev.) ... 236
British Sugar Corporation Ltd.:
automatic control. R. M. J. Withers and J. E. A. Rich. (Abs.) ... 323
1959/60 results. (N.C.) ... 57, 117, 205
share status. (N.C.) ... 177
13th Technical Conference ... 217
British West Indies, *see* West Indies
Brix of impure sugar solutions. G. Vavrinecz. (Abs.) ... 74
Thomas Broadbent & Sons Ltd.: centrifugals for U.S.S.R. (Brev.) ... 116
Bulgaria: new sugar factories. (Brev.) ... 116, 176
Bulk handling:
R. W. Barton. (Abs.) ... 133
in Australia. E. R. de Luzuriaga ... 289
Brookfield distribution terminal. W. Newton. (Abs.) ... 351
in Dominican Republic. Anon. ... 99, 100, 191
granulated sugar. L. E. Mahoney and W. L. Reed. (Abs.) ... 351
Great Western Sugar Co. Anon. ... 48
at Greenock refinery. Anon. ... 69
Kawaihae Terminals, Hawaii. Anon. ... 63
Mourilyan terminal. (Brev.) ... 332
in Philippines. S. Z. Ureta. (Abs.) ... 320
in Puerto Rico. Anon. ... 17, 251
sugar throwers. (T.N.) ... 146
– – S. W. Lucas. (Pat.) ... 77, 145
Bulk shipment: New York Exchange new contract. (Brev.) ... 84
Bulk storage:
J. Corrigan. (Pat.) ... 329
in Barbados. (Brev.) ... 363
density of bulk refined sugar. G. H. Baldt and E. F. Compton. (Abs.) ... 360
at St. Lawrence Sugar Refineries Ltd. G. Constable. (Abs.) ... 351
silo. N. B. M. Weibull. (Pat.) ... 296
white sugar silos. (T.N.) ... 330
– – – K. Ciz. (Abs.) ... 222
Bulk transport of sugar. (T.N.) ... 81, 233
– – – L. G. Weller. (Pat.) ... 78
Burma: sugar production 1958/59 ... 98
Butanol-acetone fermentation of cane juice. E. Viciedo P. (Abs.) ... 75
– – – molasses. M. Hongo. (Pat.) ... 329
By-products:
Alcohol, yeast, etc. in China. J. Lekawski *et al.* (Abs.) ... 321
from beet molasses. K. Xiezopolski ... 109
from sucrose. R. T. Thompy and N. R. Kuloor. (Abs.) ... 172
research in Hawaii. Anon. (Abs.) ... 143
see also individual by-products

Canada:
Ontario beet industry doubts ... 332
refinery plans. (Brev.) ... 364
sugar imports. (Stat.) ... 175
– – from Australia. (Brev.) ... 349
Toronto Redpath refinery. J. A. Swan and J. D. Lewis. (Abs.) ... 132
Wallaceburg factory closes. (Brev.) ... 267
Canada & Dominion Sugar Co. Ltd.: *see* Canada
Cane:
age and leaf nutrient content. G. Samuels *et al.* (Abs.) ... 181, 274
agriculture in Australia. (H.M.-L.) ... 31, 151
– British Guiana. (H.M.-L.) ... 89
– co-partnership. (H.M.-L.) ... 303
– French West Indies. (H.M.-L.) ... 119
– in Hawaii. (H.M.-L.) ... 210
– Jamaica. (H.M.-L.) ... 337

PAGE

Cane:
Agriculture in Mauritius. (H.M.-L.) ... 33
– organization. R. L. Wold. (Abs.) ... 181
– Philippines. (H.M.-L.) ... 6, 338
– Puerto Rico. (H.M.-L.) ... 306
– South Africa. (H.M.-L.) ... 61
– Spain. A. Marassi. (Abs.) ... 152
– Taiwan. W. C. Hsu. (Abs.) ... 306
– Tanganyika. Anon. (Abs.) ... 62
alcohol and paper pulp. E. A. Vázquez. (Abs.) ... 143
breeding: apomixis. S. Price. (Abs.) ... 153
– basic chromosome number. H. W. Li *et al.* (Abs.) ... 336
– bunch planting. C. S. Yang *et al.* ... 31
– at Canal Point. P. H. Dunckelman. (Abs.) ... 7
– controlled pollination. J. C. Skinner. (Abs.) ... 122
– Barbados. (H.M.-L.) ... 121, 243
– Cuba. H. G. Sorensen. (Abs.) ... 242
flowering of *S. spontaneum* in India. R. R. Panje and K. Srinivasan. ... 182
chromosome number increase and embryo-sac development. G. Bremer. (Abs.) ... 90
cleaning at Central Cortada. H. A. Willett and F. J. Thillet. (Abs.) ... 190
constituents estimation. G. Lord and C. W. Davis ... 245
cultivation. H. F. Clements. (B.B.) ... 325
– on hillsides. Anon. (Abs.) ... 34
cutting in Puerto Rico. R. Bird ... 90
cyclone damage in Mauritius. A. D. Swan. (Abs.) ... 336
drought effects. D. R. Parashar ... 320
– – A. D. Swan. (Abs.) ... 336
fibre determination. J. Dupont de R. de St. Antoine and F. Le Guen ... 262
field residues as animal fodder. E. A. Bragadin and H. B. Diaz. (Abs.) ... 7
flowering. P. Y. Juang. (Abs.) ... 62, 276
– effect of sulphurous and phosphoric acids. M. T. Ilaga *et al.* ... 211
– in Louisiana. S. J. P. Chilton *et al.* ... 244
– *Saccharum spontaneum*. R. R. Panje and K. Srinivasan. (Abs.) ... 35
fodder in Australia. K. J. Mead and J. B. Nooman. (Abs.) ... 35
foliar analysis. G. B. Hong and J. van Schuylenborgh. (Abs.) ... 120
– – F. T. Tabayoyong *et al.* (Abs.) ... 34
germination. S. Lee. (Abs.) ... 276
– S. Lee and Y. S. Loo. (Abs.) ... 60
growing economics. A. C. Barnes ... 7
– in containers. P. H. Dunckelman ... 121
growth and juice properties. K. N. Lal and J. N. Tandon. (Abs.) ... 62
industry in British Honduras. Anon. ... 122
interplanting with beet and rice. H. Chang ... 242
– with melons and rice. H. Chang and R. C. Lin. (Abs.) ... 276
knives. (T.N.) ... 202
– and shredders power consumption. R. de Froberville and J. Dupont de R. de St. Antoine. (Abs.) ... 288
leaf structure and borer resistance. H. Chang and C. Y. Shih. (Abs.) ... 211
maturity testing; sampling needle. S. C. Sen ... 179
planting date, depth and yield. L. P. Hebert and R. J. Matherne ... 7
– depth effect on growth. H. Chang and M. C. Liu. (Abs.) ... 276
– first year seedlings. M. T. Ilagan *et al.* (Abs.) ... 122
precipitation, temperature and yield. E. S. Lyons. (Abs.) ... 120
quality evaluation. G. Arceneaux ... 223
– use of fertilizers. (H.M.-L.) ... 59
recovery forecasting in Eastern U.P. S. C. Sen and D. R. Handa. (Abs.) ... 211
research in Cuba. (Brev.) ... 364
– Florida. T. Bregger *et al.* ... 276
– Queensland ... 212
– South Africa ... 9
spacing and nitrogen levels. A. S. Bains. (Abs.) ... 152
spraying. J. L. Smilie. (Abs.) ... 244
– with terpineol. P. Aravamudhan ... 120
storage. L. A. Tromp ... 39, 66
sucrose content. G. Samuels *et al.* ... 274
sugar engineering handbook. E. Hugot. (B.B.) ... 105
trashing. J. Wilson. (Abs.) ... 305
trials in Morocco. G. Grillot. (Abs.) ... 336
varietal yield in Argentina. W. E. Cross ... 87
vegetative growth index. V. Ranganathan and R. P. Raja. (Abs.) ... 120
worker. S. W. Mintz. (B.B.) ... 292

INDEX

PAGE

Cane:
yield in terraced and unterraced fields. T. T. Chang. (Abs.) 122
see also Diffusion, Diseases, Fertilizers, Irrigation, Juice, Mechanization, Payment, Pests, Transport, Varieties *and* Wax

Carbohydrates: chemistry advances. M. L. Wolfrom and R. S. Tipson 140

Carbon active: steam activation. T. Simizu and H. Kozima. (Abs.) .. 164
syrup treatment. P. Güray and M. Sütmen. (Abs.) 48

Carbon granular: decolorizing. E. D. Gillette. (Abs.) 45
at Independencia refinery. A. Vásquez D. (Abs.) 287

Carbonatation:
A. Brieghel-Müller. (Abs.) 103, 137
E. Dormal. (Abs.) 101
W. Ewers. (Abs.) 193
A. K. Kartashov *et al.* (Abs.) 355
R. Kohn and J. Vasátko. (Abs.) .. 354
R. Kohn *et al.* (Abs.) 324
I. M. Litvak. (Abs.) 290
G. d'Orazi. (Abs.) 19
F. Teschner and H. Ahlers. (Abs.) 47
J. Vasátko and R. Kohn. (Abs.) .. 19
A. F. Yakimov. (Abs.) 356
addition of polyacrylamide. B. S. Zhalov. (Abs.) 225
automatic control. P. L. Bozhko 49
– – J. Yamaga. (Abs.) 192
BMA defeco-saturation. A. K. Kartashov *et al.* (Abs.) 353
– – – L. Slavic. (Abs.) 324
cane juice filtration. B. B. Gairola 289
circulation pumps and tanks. C. G. M. Perk. (Abs.) 351
flock separation. R. Vandewijer .. 322
hot predefecation. K. Vukov. (Abs.) 324
lime consumption. S. F. Skorbilin 195
model plant. A. I. Mo rgan *et al.* .. 136
muds in animal feed. H. Hörning 260
– examination. R. Osvald. (Abs.) 198
– as fertilizer. S. Chandra *et al.* .. 62
– return. K. Jánosfy. (Abs.) 166
– separation by hydrocyclone. O Asp. (Abs.) 71
– – – T. M. Les'kiv. (Abs.) 71
– – – H. Stefan. (Abs.) 104
– – – V. Valter and S. Boucek .. 101
– settling, juice composition changes. K. D. Zhura. (Abs.) 258
– – rates. A. R. Giona and E. Mariani. (Abs.) 21
– – – effect of invert. F. N. Dobronravov *et al.* (Abs.) 141
– – – R. Osvald. (Abs.) 166
– – – polyelectrolytes. A. K. Kartashov *et al.* (Abs.) .. 103
– sugar content. S. Zagrodzki and H. Zaorska. (Abs.) 71
– sweetening-off. E. Werner. (Abs.) 48
– transporting. K. Skalski. (Abs.) 225
optimum pH. A. K. Kartashov *et al.* 355
time cycle. A. K. Kartashov and Y. D. Golovnyak. (Abs.) 224
see also Clarification

Caroni Ltd.: report 1958/59. (Brev.) .. 84

Centrifugals: (T.N.) 362
I. Bazan B. (Abs.) 100
Hein, Lehmann & Co. A. G. (Pat.) 232
H. F. Irving. (Pat.) 53
Soc. des Raffineries & Sucreries Say 231, 295
P. P. Strich. (Pat.) 112
automatic. W. Scherer. (Abs.) 288
– control. F. Broadbent and G. L. Grimwood. (Abs.) 352
– feed. Escher Wyss A. G. (Pat.) .. 77
– operation. R. Lepoutre. (Abs.) .. 99
battery control system. Western States Machine Co. (Pat.) 295
BMA conical basket. V. Z. Shapran 46
charging. Braunschweigische Maschinenbauanstalt. (Pat.) 361
– P. Fricke. (Abs.) 354
– K. Pause. (Abs.) 256
– Soc. des Raffineries et Sucreries Say. (Pat.) 76
– Western States Machine Co. .. 294
continuous. W. Dietzel. (Abs.) 350
– T. Kowalczyk. (Abs.) 48
drive and suspension. J. Hertrich 296
electrically-driven. (T.N.) 114
Krauss-Maffei. Anon. (Abs.) 190
– – and Alfa-Laval. T. Kowalczyk 225
massecuite viscosity. A. M. Zabolotskaya. (Abs.) 72
sugar washing. J. P. Lamusse and M. Randabel. (Abs.) 288

PAGE

Centrifugals:
time cycle variations. K. A. Bortnovskii. (Abs.) 352
water-drive control valve. J. Hertrich. (Pat.) 145
Ceylon: sugar expansion plans. 116, 204
Chains. (T.N.) 174
Chile: sugar industry. L. Hutzl. (Abs.) 50
China:
Canton sugar factory. J. Mlynár .. 133
Cuban sugar purchase. (N.C.) 238
Kiangmung sugar combine. J. Lekawski *et al.* (Abs.) 321
sugar and bagasse paper factory .. 55
– industry. (Brev.) 364
– – R. Westgate. (Abs.) 352
– production. (Brev.) 84
– – V. N. Tsygankov. (Abs.) 134
Chromatography: V. Prey. (Abs.) 142
paper: colouring matter in refinery liquors. T. Yamane and F. Onda 200
– raffinose in molasses. R. I. Gol'dfarb and P. L. Danilenko 262
– – – R. Weidenhagen and H. Schiweck. (Abs.) 106
– raw sugar analysis. M. M. Chollet and M. C. Descat. (Abs.) 359
– reducing sugars determination. J. Philippu. (Abs.) 260
sugars in beet. O. V. Braun. (Abs.) 108
– – determination. F. Schneider and A. Emmerich. (Abs.) .. 74
– – – S. Gerlaxhe and J. Casimir 74
see also Amino acids *and* Sugars

Citric acid:
fermentation. J. H. Fried and J. G. Sandzam. (Pat.) 78
– Kyowa Hakko Kogyo K. K. (Pat.) 264
– Y. T. Liu and H. S. Bah. (Abs.) 263
– K. Sakaguchi *et al.* (Pat.) 361
recovery. C. T. Cheng and H. S. Bah 263

Clarification:
B. A. Bourne and P. S. Francis .. 221
R. Casas S. (Abs.) 222
W. S. Graham and L. C. G. Douwes Dekker. (Abs.) 190
Inventa A. G. für Forschung u. Patentverwendung. (Pat.) 231
Peter Spence & Sons Ltd. (Pat.) .. 53
J. R. de la Vega. (Abs.) 100
H. I. Waterman. (Pat.) 145
adsorbent flocculating capacity. M. C. Bennett. (Abs.) 99
"Alrubar" process. A. Rubio B. .. 99
effects of calcium and phosphate. M. C. Bennett and J. M. Ragnauth 13, 41
efficiency and filter cake sugar losses. S. G. Prasad and K. N. Agarwal 133
with "Elguanite". M. Ballester .. 164
filtration *vs.* centrifugal decanting. A. Paratella. (Abs.) 168, 196
with polyelectrolytes. E. C. Vignes and R. de Froberville. (Abs.) .. 288
– K. Dusek and J. Buriánek. (Abs.) 102
– "Separan AP-30". R. Ramirez 190
predefecation column. V. Tibensky *et al.* (Abs.) 257
progressive predefecation. G. W. Wightman and A. P. Saranin .. 254
raw and refined sugar polarization. F. Teschner. (Abs.) 142
subsider flow tests. R. W. Ellis and L. R. Brain. (Abs.) 255
in Witaszyce factory. K. Kopera *et al.* (Abs.) 21
see also Carbonatation, Hydrocyclones, Ion Exchange *and* Sulphitation

Clarifiers: (T.N.) 79
B. Brukner. (Abs.) 49
Dorr-Oliver Inc. (Pat.) 231
capacity increase. I. G. Chugunov 22
continuous. U. Villar L. (Abs.) 288
Dorr. K. A. Joshi and O. P. Bhargava. (Abs.) 351
"Prima-Sep". Anon. (Abs.) 191
at San Cristóbal. L. C. Rojas. (Abs.) 287
waste water treatment. V. N. Peletminskii. (Abs.) 193

Colombia:
bagasse paper factory. (Brev.) 268
participation in International Sugar Agreement. (Brev.) 300
sugar production. (Brev.) 83, 94, 176
Colonial Sugar Refining Co. Ltd.: new cane research centre 212
1959/60 report. (N.C.) 238
Colour:
determination. V. Valter. (Abs.) 359, 360
formation in process. F. M. Chapman *et al.* (Abs.) 350

PAGE

Colour:
isolation from raw sugar. S. Sakai and T. Simizu. (Abs.) 164
meter. (T.N.) 202
– J. Dobrzycki. (Abs.) 199
molasses solution. A. M. Malkov .. 141
refinery liquors. T. Yamane and F. Onda. (Abs.) 200
– products. P. Honig. (Abs.) 360
removal with bone char. A. Gee .. 46
– – E. D. Gillette. (Abs.) 45
– – theory. W. V. Loebenstein .. 73
– by resins. S. Fumasoni *et al.* .. 50
– – Z. Menci *et al.* (Abs.) 222
– from molasses. T. P. Khvalovskii 52
Taiwan white sugar. W. Chen and Z. H. Shu. (Abs.) 171
whiteness determination. K. Jánosfy. (Abs.) 326
– value chart. S. Devanarayana .. 228
Commission Internationale Technique de Sucrerie, 11th Meeting 1960. 204, 267
"Complexon", *see* EDTA
Concrete: corrosion protection. M. von Mildenstein. (Abs.) 225
Control, automatic :
G. Pieroni. (Abs.) 168
J. Street. (Abs.) 223
– affination station. E. F. Gamboa 289
beet factory. E. Dormal. (Abs.) .. 19
– – in U.S.S.R. (Brev.) 148
– flow. S. Zagrodzki and J. Dobrzycki 104
– slicer. N. R. Frepon. (Abs.) 137
bin level. (T.N.) 114
boiling. S. V. Dykhne and A. Y. Zubóv. (Abs.) 133
– E. A. Gusev. (Abs.) 289
– B. D. Sockhill and P. G. Wright 254
– by "Cuitometer". Anon. (Abs.) 21
in British Sugar Corporation. R. M. J. Withers and J. E. A. Rich 323
cane carrier. C. Martinez. (Abs.) .. 320
carbonatation. P. L. Bozhko. (Abs.) 49
centrifugals. F. Broadbent and G. L. Grimwood. (Abs.) 352
– W. Scherer. (Abs.) 288
– battery. Western States Machine Co. (Pat.) 295
conductivity equipment. (T.N.) 114
crystallizer temperature. J. P. Komen. (Abs.) 254
D.d.S. diffuser. Y. N. Dobrovol'skii 138
equipment. L. Rychetsky. (Abs.) 50
evaporators. (T.N.) 202
fluid level. J. Browkin. (Abs.) 21
instruments. (T.N.) 26, 174, 202
magma density. K. Inagaki. (Abs.) 221
melt station at Imperial Sugar Co. Anon. (Abs.) 135
melters at Central El Palmar. F. Cordovez Z. (Abs.) 18
molasses depth and weight gauges. V. I. Aksenfel'd. (Abs.) 291
pH. K. Cihal. (Abs.) 72
– J. Yamaga. (Abs.) 192
– in "Sepa" process. R. Loserth .. 263
in Poland. J. Browkin. (Abs.) 193
process timers. (T.N.) 266, 362
Redpath refinery. J. A. Swan and J. D. Lewis. (Abs.) 132
thick juice density. T. Baloh. (Abs.) 20
temperature recorder. (T.N.) 81, 113
weighing. (T.N.) 146
Control, chemical:
J. Dupont de R. de St. Antoine .. 262
H. W. Kerr. (Abs.) 261
beet analysis. I. Holly. (Abs.) 199
– Easp. A. Drabikowska. (Abs.) 199
cane fibre determination. J. Dupont de R. de St. Antoine. (Abs.) 262
Clerget factor. R. B. Acotto. (Abs.) 74
pol Java ratio. V. G. Paranpan .. 327
– *vs.* sucrose balance. S. B. Datta 18
sucrose calculations. T. R. Ancheta 293
see also Ash, Colour, Invert Sugar, Losses, Polarization, Reducing sugars, Sucrose, Sugar *and* Water
Conveyors: (T.N.) 114
belt cleaner. (T.N.) 81
clarifier muds. A. Grabski. (Abs.) 193
magnetic vibratory. (T.N.) 297
rotary paddle feeders. (T.N.) 26
rubber belting. (T.N.) 202
see also Bulk handling
Coolers. (T.N.) 79
bagasse board water towers. Anon. 75
fluidized bed for sugar. P. H. Petri 351
Corrosion:
I. Paulik and O. Tiszaváry. (Abs.) 167
aluminium alloys. I. Paulik. (Abs.) 321
evaporators. F. Schneider *et al.* .. 71

INDEX

PAGE

Corrosion:
prevention. W. Kindscher. (Abs.) 290
– A. May. (Abs.) 191
– in bulk sugar barges. Anon. .. 18
– in concrete. M. von Mildenstein 225
– in diffusers. O. Böhm and O. Lisy 21
– paints. D. Heins. (Abs.) 102
refinery equipment. E. Leclerc *et al.* 226
rotary diffusers. I. I. Prilutskii .. 136
Costa Rica: sugar production 1959/60 319
Couplings. (T.N.) 114, 266
Crystallization:
compressed air-cooling. A. T. Kozhushko and Y. D. Kot. (Abs.) .. 101
low-grade massecuites. P. V. S. Sastry. (Abs.) 352
low-product massecuite. K. Wagnerowski *et al.* (Abs.) 225
– – nomogram. A. Sepitka. (Abs.) 50
– – purity. J. Kurzewski. (Abs.) 138
B-massecuite cooling. Chemical Staff, Kolhapur Sugar Mills Ltd. 352
molasses. M. Mrkvicková. (Abs.) .. 200
rate. A. Mircev and M. Friml. (Abs.) 108
– G. H. de Vries. (Abs.) 230
– changes. P. V. Golovin *et al.* .. 224
sucrose. F. H. C. Kelly. (Abs.) .. 327
– in thin films. H. E. C. Powers .. 307
sugars and juice purities. L. Terek 193
temperature control. J. P. Kouen 254
time-temperature relationships. F. W. Schwer and S. P. Small .. 350
Crystallizers: Werkspoor. B. Zelba and C. Ropa. (Abs.) 48
Cuba:
bagasse board plant. Anon. (Abs.) 109
cane breeding at Jaroñú. H. G. Sorensen. (Abs.) 242
– research. (Brev.) 364
sugar crop 1960 86, 147
– exports 1959. (Stat.) 147
– mill dismantled. (Brev.) 349
– – nationalization. (Brev.) 268, 331
– and oil machinery pool. (N.C.) .. 334
– ownership dispute. (N.C.) 333
– purchases by U.S.S.R. 58, 85, 331
– sales. (N.C.) 238
– Technologists' Association Proceedings. (B.B.) 259
trade agreement with Japan. (Brev.) 235
U.S. relations. (N.C.) 205
– Sugar Act. (N.C.) 2, 85
West Indies Sugar Corporation liquidation. (Brev.) 55
Cube sugar:
hardness determination. A. A. Grokhovskii and A. A. Soroka .. 321
plant. V. Z. Shapran. (Abs.) 223
– from Standard Steel Corporation slab moulds. Raffinerie Tirlemontoise. (Pat.) 264

Density, *see* Brix
Dextran:
in cane juices. R. I. Nicholson and M. Horsley. (Abs.) 200
effect on juice purification. F. Teschner and H. Ahlers. (Abs.) 47
– on syrup viscosity. G. K. Sutherland 185
fibre production. Commonwealth Engineering Co. of Ohio. (Pat.) 231
production. E. J. Hehre *et al.* (Pat.) 78
soil conditioner. M. J. Hiler. (Pat.) 53
Dextrose:
alkaline degradation. J. Dubourg and A. Lemaitre. (Abs.) 171
esters production. G. P. Touey and H. E. Davis. (Pat.) 265
reaction with amino acids. T. Shimizu and S. Sakai. (Abs.) 164
reducing power disappearance. P. L. Mottard. (Abs.) 326
see also Invert sugar, Reducing sugars *and* Sugars
Dictionary of Nutrition and Food Technology. A. E. Bender. (B.B.) 259
Diffuser, beet:
Braunschweigische Maschinenbauanstalt. (Pat.) 25, 76
H. J. Christoffersen and C. M. Möller 264
Z. D. Fel'dshon. (Abs.) 195
C. Glinka. (Pat.) 144
S. M. Grebenyuk. (Abs.) 138
W. Kaether. (Pat.) 201
W. Kaether and F. Mushack. (Pat.) 201
J. P. Ruth. (Pat.) 110
Buckau-Wolf. H. Konishi. (Abs.) .. 196

PAGE

Diffusers, beet:
comparative evaluation. E. T. Koval' *et al.* (Abs.) 356
corrosion. I. I. Prilutskii. (Abs.) .. 136
– prevention. O. Böhm and O. Lisy D.d.S. N. Arnth-Jensen and H. Dohn. (Abs.) 48
– Y. N. Dobrovol'skii. (Abs.) 138
– J. Szadkowski and S. Jarzecki .. 21
– Z. I. Tóth. (Abs.) 166
heat insulation. K. Seiffert. (Abs.) 21
J. Anon. (Abs.) 324
– K. Halberényi *et al.* (Abs.) 49
– K. Leclőssy and K. Vukov. (Abs.) 290
– V. A. Selyatitskii. (Abs.) 257
– M. Tegze and K. Vukov. (Abs.) .. 353
laboratory. C. J. Asselbergs *et al.* .. 95
Mandryko modifications. G. A. Mikuta and V. A. Kamenetskii .. 195
power consumption. O. Böhm 258
pulp removal. M. J. Jalkanen. (Pat.) 110
R.T. H. J. Fischer. (Abs.) 226
– A. A. Sokolovskii *et al.* (Abs.) .. 195
Sangerhausen. H. J. Fischer. (Abs.) 139
Diffusion, beet:
P. Devillers and M. Lollier. (Abs.) 137
M. S. Gabovich and I. I. Prilutskii 357
G. Oplatka. (Abs.) 193
G. Pieroni. (Abs.) 20
I. I. Prilutskii. (Abs.) 168
bacterial losses. V. S. Kurbatova 21
colloids. L. Stefanov. (Abs.) 199
disinfection. E. M. Grishchenko and G. F. Tyazhelova. (Abs.) 257
– P. Pavlas *et al.* (Abs.) 47
– K. Piasecki and K. Pograniczny 193
– G. V. Shtepan. (Abs.) 224
– Z. I. Tóth. (Abs.) 324
– O. Vajda. (Abs.) 167
– O. Vajda and T. Zágon. (Abs.) .. 49
feed water ion exchange treatment. G. S. Benin. (Abs.) 290
– – pH. A. K. Kartashov *et al.* .. 167
– – quality. G. S. Benin and V. I. Gordienko. (Abs.) 224
– – – A. K. Kartashov and A. K. Gopak. (Abs.) 71
juice percolation. E. T. Koval' *et al.* (Abs.) 355, 356
kinetics. V. M. Volokhvyanskii .. 167
losses. P. D. Golovkov. (Abs.) 138
– K. Vukov. (Abs.) 226
– calculation. W. Dörfeldt. (Abs.) 165
low temperature. H. I. Waterman 296
nomogram. P. M. Silin. (Abs.) .. 20
plasmolysis. B. Nowakowski. (Abs.) 104
split battery operation. Y. D. Kot 138
– – – L. I. Shapiro. (Abs.) 48
temperature programme indicator. J. Browkin. (Abs.) 196
theory of rotary diffusers. E. T. Koval' and A. Y. Zagorul'ko .. 356
see also Control, Automatic *and* Losses
Diffusion, cane: Low-temperature. H. I. Waterman. (Pat.) 296
trials in Hawaii. (Brev.) 27
Diseases, beet: virus yellows and sugar losses. O. Neeb and H. Grupe .. 353
– – in U.K. R. Hull. (Abs.) 88
Diseases, cane:
J. Adsuar. (Abs.) 62
C. W. Edgerton. (B.B.) 169
J. Gordon. (Abs.) 242
bacterial mottle pathogen. W. J. Dowson and A. C. Hayward 275
chlorotic streak. O. W. Sturgess .. 152
downy mildew resistance. T. L. Chu *et al.* (Abs.) 211
gummosis in Réunion. D. d'Emmerez de Charmoy. (Abs.) 242
mosaic in Louisiana. Anon. (Abs.) 244
– – I. L. Forbes and R. J. Steib .. 209
– – R. J. Steib and I. L. Forbes .. 209
– resistance trials. S. L. Leu and Y. S. Bau. (Abs.) 62, 122
– rogueing infected stools. E. R. Stamper and L. Anzalone 211
ratoon stunting. F. M. L. Sheffield 90
– – hot air treatment. R. J. Steib and S. J. P. Chilton. (Abs.) 5
– – in Mauritius. R. Antoine .. 182, 275
red rot pathogen. K. Kar. (Abs.) 35
– – – mutation. R. S. Vasudeva *et al.* (Abs.) 154
resistance trials. J. Gordon. (Abs.) 243
in Réunion. D. d'Emmerez de Charmoy. (Abs.) 305
smut in Tucumán. W. E. Cross .. 239, 271
varietal resistance. E V Abbott .. 61
Distillery:
alcohol production. Usines de Melle 232

PAGE

Distillery:
fusel oil composition. L. Genevois and J. Baraud. (Abs.) 109
molasses analysis and payment. V. M. Kats and T. P. Khvalkovskii. (Abs.) 358
waste as fertilizer. S. Chandra *et al.* 62
– fodder yeast production. J. P. Shukla and B. D. Kapoor 172
– glutamic acid recovery. N. V. Centrale Suiker Mij. (Pat.) 25
see also Alcohol *and* Fermentation
Dominican Republic:
bulk handling at Rio Haina. Anon. (Abs.) 99, 100, 191
crop limitation. (Brev.) 148
sugar industry. H. R. Shaw. (Abs.) 18
U.S. imports authorization. (N.C.) 302
Drives: (T.N.) 114, 234
belt. (T.N.) 26, 146
centrifugals. J. Hertrich. (Pat.) .. 296
electric. W. Johnson and F. M. Lohning. (Abs.) 254
Dry solids, *see* Brix *and* Water
Dryers: (T.N.) 79, 330
bagasse. B. B. Bandi. (Abs.) 352
heat insulation. K. Seiffert. (Abs.) 21
improvements. A. Schwieter. (Abs.) 357
for U.S.S.R. (Brev.) 266
Drying:
beet leaves. E. Pötke. (Abs.) 328
– pulp. L. I. Shapiro. (Abs.) 225
heat consumption. F. Baunack .. 356
moisture content of sugars. T. Nagahara and C. Tsutsumi. (Abs.) 360
refined sugar. B. M. Braginskaya *et al.* (Abs.) 321
Dunford & Eliott Process Engineering Ltd.: dryers for U.S.S.R. (Brev.) 266
Dust: removers. (T.N.) 234, 297, 330

Economic Development Projects Manual Anon. (B.B.) 197
Ecuador: factory plans. (Brev.) 116
EDTA: evaporator cleaning. K. Cihal 166
invert sugar determination in refined sugar. J. Knight and C. H. Allen 344
Egypt: Edfu sugar factory. (Brev.) .. 176
sugar industry expansion. (N.C.) .. 150
Eire *see* Ireland *and* Irish Sugar Co. Ltd.
Electrodialysis: sugar juices. M. Leszko 324
Electrophoresis, paper:
glutamic acid in final molasses. A. K. Kartashov *et al.* (Abs.) 359
of sugars. S. Gerlaxhe and J. Casimir. (Abs.) 74
– amino acids, etc. V. Prey. (Abs.) 142
Engines: Corliss modifications. V. J. Bailliet. (Abs.) 222
– speed control. V. J. Bailliet 287
Entrainment:
causes and prevention. K. N. Agarwal and S. G. Prasad. (Abs.) 17
prevention. (T.N.) 114
– C. G. M. Perk. (Abs.) 17, 351
Ethiopia: Verenigde H.V.A.-Mijn. N.V. factories. (N.C.) 206
Ethylene Diamine Tetra-acetic acid, *see* EDTA
Europe:
beet area estimates 150, 175
– sugar production estimates 28, 301, 331
and British Commonwealth. Anon. Economic Community sugar economies. H. Ahlfeld. (B.B.) 23
Evaporation: G. Malaguzzi-Valeri .. 20
Evaporators:
cleaning. Anon. (Abs.) 71
– I. S. Karchevskii. (Abs.) 225
– G. I. Stasev and G. F. Tyazhelova 104
– V. N. Tret'yakov. (Abs.) 225
– acid inhibitor. J. A. Lewis. (Abs.) 256
– with EDTA. K. Cihal. (Abs.) .. 166
condensate removal. V. M. Pertsel' and V. N. Gorokh. (Abs.) 168
– sugar content. E. D. Gillette .. 133
controls. (T.N.) 202
corrosion. F. Schneider *et al.* (Abs.) 71
descending film. B. P. Mitrofanov 291
design and thick juice purity. K. Löbl. (Abs.) 258
explosions. A. G. Keller. (Abs.) .. 222
forced-flow. T. Nyáry. (Abs.) 324
heat transmission nomogram. T. Baloh. (Abs.) 48
"Last Evaporator" system. W. G. de Proskowetz 8

INDEX

PAGE

Evaporators:
solar energy concentrators. M. L. Khanna *et al.* (Abs.) 100
thick juice Brix control. T. Baloh 20
vertical tube, reduction of preheating section. H. Tonn. (Abs.) 50
see also Entrainment *and* Scale

Factory:
equipment defects. A. V. Goncharenko. (Abs.) 225
– – I. F. Yamkovoi. (Abs.) 225
establishment. Anon. (B.B.) 197
Fat from molasses. A. M. Gad *et al.* .. 109
Fermentation:
D-arabitol production. O. Lavin and J. W. Holloway. (Pat.) 265
bakers' yeast manufacture. A. J. C. Olsen 213, 247
butanol from molasses. M. Hongo 329
cane juice. E. Lorenzo-Luaces 287
– – E. Viciedo P. (Abs.) 75
allo-iso-citric acid production. K. Sakaguchi *et al.* (Pat.) 361
citric acid production. J. H. Fried and J. G. Sandzam. (Pat.) 78
– – – Kyowa Hakko Kogyo K. K. 264
– – – Y. T. Liu and H. S. Bah .. 263
– – recovery. C. T. Cheng and H. S. Bah. (Abs.) 263
dextran production. E. J. Hehre *et al.* (Pat.) 78
fat from molasses. A. M. Gad *et al.* 109
glycerol production. Commercial Solvents (Great Britain) Ltd. .. 53
levan sucrose production. Farbenfabriken Bayer A. G. (Pat.) 361
see also Alcohol, Citric Acid, Dextran etc.

Fertilizers:
bacterial, in U.S.S.R. Anon. (Abs.) 119
in British Commonwealth. Anon. 325
and cane quality. (H.M.-L.) 59
cane and sugar responses to phosphorus and potassium. F. A. Basila. (Abs.) 34, 122
cowpea-velvet bean mixture. L. G. Vallance. (Abs.) 35
crop-logging. H. F. Clements. (B.B.) 325
distillery wash and carbonatation muds. S. Chandra *et al.* (Abs.) 62
filter muds. S. K. Chopra. (Abs.) 122
– – and bagasse. W. L. Owen .. 89
– – composting. W. L. Owen 306
Louisiana trials. L. G. Davidson .. 244
nitrogen and cane spacing. A. S. Eains. (Abs.) 152
Philippines trials. Anon. (Abs.) 211, 242
rock phosphate. Anon. (Abs.) 275
urea *vs.* sulphate of ammonia. D. H. Parish and S. M. Feillafé. (Abs.) 276, 336
varietal tests. F. T. Tabayoyong and F. A. Basila. (Abs.) 34
see also Gibberellic acid

Fiji: Colonial Sugar Refining Co. Ltd. report 1959-60. (N.C.) 238

Filter:
continuous press. E. Goriot. (Pat.) 231
drum. F. Emödi and O. Tiszávary 49
"Eimcobelt" rotary vacuum. C. C. Savole and E. R. Vrablik. (Abs.) 223
"Fas-Flo". D. K. Luke. (Abs.).. 350, 351
at Villanueva. J. M. Santiago 190
press. D. G. Pagairar *et al.* (Abs.) 352
– D. A. Stoltenberg. (Pat.) 144
pressure. H. Jung. (Pat.) 294
"RotoBelt". B. B. Bandi. (Abs.).. 352

Filter cake:
conveyor. A. G. Grabski. (Abs.) .. 193
as fertilizer. S. K. Chopra. (Abs.) 122
– W. L. Owen. (Abs.) 89, 306
removal. A. M. Solodkovskii. (Abs.) 168
washing. I. E. Zingel'. (Abs.) 258
Filter cloths: "Steelon". S. Wolfosiecki 139
Filtrability: raw sugar. W. D. Wells 261

Filtration:
beet juices. R. Vandewijer. (Abs.) 322
carbonatation juice. W. Ewers .. 193
– – B. B. Gairola. (Abs.) 289
– – A. Lemaitre. (Abs.) 260
– – K. D. Zhura. (Abs.) 258
costs at Haldensleben. W. Ewers 290
effect of invert sugar. R. Osvald .. 166
with Oliver filters. K. A. Joshi and O. P. Bhargava. (Abs.) 351
optimal conditions. A. M. Hertzeberg and C. B. Mountfort. (Abs.) 108

PAGE

Filtration:
syrup and 2nd carbonatation juice in Taiwan. C. A. Lee. (Abs.).... 45
use of kieselguhr. S. Gawrych. 139
Finland: trade agreement with U.S.S.R. 364
Fire: fighting equipment. (T.N.) 81
Soc. Fives Lille-Cail: factories for U.S.S.R. (Brev.) 176
Flacq United Estates Ltd.: annual report 1959. (N.C.) 269
Flow:
indicators. (T.N.) 202
meters. (T.N.) 174, 234, 330
– L. A. Suarez. (Abs.) 222, 287
rate alarms. (T.N.) 202
Fondant sugar: as boiling seed. K. H. Parekh. (Abs.) 351
production. California & Hawaiian Sugar Refining Corp. (Pat.) 53
Food: Directory 1959/60. R. de Giacomi. (B.B.) 23
technology and nutrition dictionary. A. E. Bender. (B.B.) 259
France:
beet price and sugar production aims 30
Soc. Fives Lille-Cail factories for U.S.S.R. 176
new sugar factories. (Brev.) 27
sugar plans. (Brev.) 236
trade agreement with Tunisia 28
French West Indies:
cane agriculture. (H.M.-L.) 119
Guadeloupe sugar crop reduction.. 349
sugar production 1958/59. (Brev.) 175
Fructose, *see* Levulose
Furnaces: combustion catalysts. J. B. Khu. (Abs.) 289
flame failure detector. (T.N.) 234

Gas: water-jet purifier. O. Böhm and O. Lisy. (Abs.) 258
Gears. (T.N.) 26, 174, 266, 330
for molasses pumps. P. S. Maksimuk 22
Germany, East: sugar industry. L. Szerecz and P. Wertan. (Abs.).. 166
Germany, West:
beet crop 1959. (Brev.) 83
new sugar factory planned. (Brev.) 28
waste water purification. H. Limprich. (Abs.) 226
water pollution in Braunschweig. H. Limprich. (Abs.) 258
Ghana: sugar development. (Brev.) .. 246
sugar factory. (Brev.) 27
Gibberellic acid. (H.M.-L.) 153
E. P. Villareal and O. Santos. (Abs.) 34
Gilmore Louisiana-Florida sugar manual. F. I. Meyers. (B.B.).... 169
Glucose, *see* Dextrose
Glutamic acid:
decarboxylase in beet. S. Böttger and W. Steinmetzer. (Abs.) 261
in beet juices. V. Prey *et al.* (Abs.) 52
and glutamine determination. G. Noto la Diega. (Abs.) 24
from Steffen's filtrate. Ajinomoto Co. Inc. (Pat.) 144
– – N. V. Centrale Suiker Mij. (Pat.) 25
– – F. A. Hoglan. (Pat.) .. 111, 173, 265
– – T. Ogawa *et al.* (Pat.) 53
from vinasse. N. V. Centrale Suiker Mij. (Pat.) 25
glutamine in beet factory products. S. Böttger and W. Steinmetzer 293
– – – J. Vellard. (Abs.) 49
in molasses. A. K. Kartashov *et al.* 359
production in Japan. (Brev.) 175
Glutamine: from beet juice. E. V. McCollume and A. A. Rider. (Pat.) 201
Grain size: raw sugar. J. A. Clark and F. Garcia L. (Abs.) 17
Greece: sugar factories. 6, 84, 178
Guatemala: bagasse paper. (Brev.).. 364
sugar developments 300
Gul, *see* Gur
Gur: keeping qualities. P. V. S. P. Rao and N. V. M. Rao. (Abs.) 163
production in Northern Rhodesia 331
storage and transport. P. V. S. Rao and N. V. M. Rao. (Abs.) 134

Haiti: Sugar Queen on stamp. (Brev.) 236
Hawaii:
beet trials. (Brev.) 235

PAGE

Hawaii:
by-products research. Anon. (Abs.) 143
cane cultivation. (H.M.-L.) 210
– diffusion experiments. (Brev.) .. 27
– mill turbine drives. J. A. Dove and G. L. Jorn. (Abs.) 17
– transportation. Anon. (Abs.) .. 154
factory research. Anon. (Abs.).... 163
irrigation control. G. Y. Ewart .. 181
Kawaihae bulk terminals. Anon. .. 63
seed cane planter. (Brev.) 27
sugar production 1959. (Brev.).. 116, 175
volcano damage to cane. (Brev.).. 147
weed control. N. S. Hanson. (Abs.) 153
Heat:
consumption in drying sugar and beet pulp. F. Baunack. (Abs.).. 356
economy in sugar factories. S. Górski and Z. Kokeli. (B.B.) 140
– – – A. Pomaranski. (Abs.) 136
flow in evaporators. H. Tonn. (Abs.) 50
insulation in diffuser and drum dryer. K. Seiffert. (Abs.) 21
lime kiln requirements. (Abs.) 165
recovery from hot condensate. V. Sázavsky. (Abs.) 139
transfer nomogram for evaporators. T. Baloh. (Abs.) 48
– in pan boiling. H. Okita. (Abs.) 192
vapour bleeding at S.A.I.S. C. G. M. Perk. (Abs.) 132
Herbicides, *see* Weed control
Holland: beet loading. K. Peisker .. 225
Honduras: cane mill at Villanueva. J. M. Santiago. (Abs.) 132
Honolulu Iron Works Company: developments. (Brev.) 202
Sir J. L. Hulett & Sons Ltd. 1959/60 report. (N.C.) 334
Hungary: betaine plant at Fresi. K. Hangyál and I. Radics. (Abs.) 167
continuous diffusion research. M. Tegze and K. Vukov. (Abs.).... 353
Hydrocyclones:
carbonatation juice treatment. O. Asp. (Abs.) 71
– – – T. M. Les'kiv. (Abs.) 71
– – – V. Valter and S. Boucek .. 101
– – – H. Stefan. (Abs.) 104
milk-of-lime purification. S. Boucek and V. Valter. (Abs.) 139
– – V. A. Zaslavskii. (Abs.).... 72
– – and juice handling. Z. D. Zhuravleva *et al.* (Abs.) 194

India:
bagasse paper. (Brev.) 268, 363
– – Anon. 98
cane planter. (Brev.) 148
– recovery ready reckoner. S. C. Sen and D. R. Handa. (Abs.) 211
– borers. B. D. Gupta. (Abs.) 121, 122, 243
Deccan Sugar Technologists' 16th Convention Proceedings. (B.B.) 325
flowering of *S. spontaneum*. R. R. Panje and K. Srinivasan. (Abs.) 182
low-grade stations in Deccan factories. Chemical Staff, Kolhapur Sugar Mills Ltd. (Abs.) 352
mechanical cultivation. (H.M.-L.).. 32
metric weights system. (Brev.).... 84
new National Sugar Institute building. (Brev.) 83
new sugar factories. (Brev.) 84, 148, 176, 332
sucrose by-products. R. T. Thampy and N. R. Kuloor. (Abs.) 172
sugar for export. (Brev.) 331
– industry extension service. Anon. 62
– production. (Brev.) 235, 300
– – increase plans. (Brev.) 204
Indonesia:
nationalization of N.V.H. "Amsterdam" estates. (N.C.) 206
sugar crop 1959. (Brev.) 116
– exports 1957/59. (Stat.) 332
Innswood Estate Ltd.: acquisition by Booker Bros. McConnell & Co. Ltd. (Brev.) 300
Instruments:
(T.N.) 146
pocket microscope. (T.N.) 146
see also Colour, Control, automatic, Flow, pH, etc.
International Commission for Uniform Methods of Sugar Analysis: 12th Session Proceedings. (B.B.) 51
13th Session Referees. 203

INDEX

PAGE

International Society of Sugar Cane Technologists: 10th Congress Proceedings 259, 363
International Sugar Agreement:
Argentina application. (Brev.) .. 299
Colombian participation. (Brev.) .. 300
quota redistributions 203, 302
International Sugar Council:
(N.C.) 1, 58, 117, 237
Sugar Year Book 1958. (B.B.) 51
world free market requirements 1960. (Stat.) 54
see also World
Invert Sugar:
determination. V. Prey *et al.* (Abs.) 170
– in refined sugar. J. Knight and C. H. Allen 344
effect of ultra-violet radiation. M. Komoto and S. Fujii. (Abs.) 200
effect on juice clarification. F. N. Dobronravov *et al.* (Abs.) 141
– – – R. Osvald. (Abs.) 166
see also Reducing sugars *and* Sugars
Ion exchange:
additional sugar yield calculation. H. Hitzel. (Abs.) 357
Assalini-B molasses desugaring process. H. Schiweck. (Abs.) 353
beet juice treatment. G. Assalini 232
– – – G. S. Benin. (Abs.) 136
– – – J. Buriánek and F. Durdík 196
– – – F. Durdík and J. Buriánek 166
– – – S. Fumasoni *et al.* (Abs.) ... 50
– – – H. Hartl. (Abs.) 102
– – – E. Moebes. (Abs.) 257
– – – G. A. Paparelle. (Abs.) 19
– – – S. Popov. (Abs.) 193
– – – H. Shimizu *et al.* (Pat.) 145
– – – P. Stransky and V. Valter 102
– – – V. M. Volokhvyanskii. (Abs.) 20
– – – E. Walerianczyk *et al.* (Abs.) 102
– molasses constituents separation. F. Schneider *et al.* (Abs.) 229
– – treatment. Farbenfabriken Bayer A.G. (Pat.) 231
– – – H. Schiweck. (Abs.) 102
– – – B. Neumann. (Abs.) 47
cane juice treatment. Anon. (Abs.) 134
– – – W. Chen. (Abs.) 46
– – – M. Lima G. (Abs.) 100
carbonate process. S. Vajna. (Abs.) 354
citric acid recovery from fermentation. C. T. Cheng and H. S. Bah 263
diffusion water treatment. G. S. Benin. (Abs.) 290
effect of activation on decolorizing. V. Valter *et al.* (Abs.) 20
inorganic salts determination. J. Buriánek and D. Slechtová. (Abs.) 171
juice treatment. W. A. Blann. (Pat.) 112
laboratory water treatment units... 80, 330
massecuite crystal determination. J. Buriánek and D. Slechtová .. 229
molasses treatment. Rohm & Haas Co. (Pat.) 294
Quentin molasses purification process. R. Hoffmann. (Abs.) 354
resins. G. Mantovani. (Abs.) 103
– ageing. J. Stamberg and F. Krska. (Abs.) 321
– – K. Suzuki. (Abs.) 192
– service life. T. Tanaka. (Abs.) .. 221
– surface structure. S. Iwashina .. 221
sucrose inversion. A. Emmerich and G. Schachten. (Abs.) 229
in sugar industry. A. Carruthers and J. F. T. Oldfield. (Abs.) 323
in sugar refining. S. Iwashina. (Abs.) 134
– – plant. Z. Mencl *et al.* (Abs.) .. 222
– – – size calculation. J. Buriánek and F. Durdík. (Abs.) 321
– – resin regeneration. S. Iwashina 18
total acid determination. K. Bohn 108
Ion exclusion: molasses purification. A. C. Reents and H. W. Keller .. 265
Iran: new factory. (Brev.) 84
sugar plans. (Brev.) 97
Ireland:
beet juice effective alkalinity. (Abs.) 230
beet molasses lactic acid content. R. Carolan. (Abs.) 260
sugar for export. (Brev.) 176
Irish Sugar Company Ltd.: food processing. (Brev.) 116
results 1958/59. (Brev.) 44
Irrigation:
Anon. (Abs.) 181
H. F. Clements. (B.B.) 325
control in Hawaii. G. Y. Ewart .. 181
fire-fighting fog nozzle. G. Y. Ewart 336
overhead, in Uganda. (Brev.) 84
in Taiwan. W. C. Hsu. (Abs.) 276

PAGE

Italy:
beet crop 1959/60. (Brev.) 176
molasses utilization. L. Gulminelli 75
sugar surplus. (Brev.) 28

Jaggery, *see* Gur
Japan:
beet composition. M. Komoto *et al.* 200
– sugar production. (Brev.) 235
glutamic acid production. (Brev.) .. 175
sugar imports, 1957/59. (Stat.) .. 364
– Plant Guide Book. T. Yamane .. 169
– Yearbook 1958. (B.B.) 51
trade agreement with Cuba. (Brev.) 235
– – Taiwan. (Brev.) 235
Java, *see* Indonesia
Jordan: refinery tenders. (Brev.) 349
sugar plans. (Brev.) 83
Juices:
calcium oxalate solubility. M. Roche 198
feed pipe nomogram. V. I. Chopik 22
ion-exchange treatment. W. A. Blann. (Pat.) 112
Juices, Beet:
amino-acids. V. Prey *et al.* (Abs.) 52
analysis. V. Prey *et al.* (Abs.) 170
betaine determination. O. Szabolcs and V. Prey. (Abs.) 107
carbonate content. E. Valkovszky 142
colloids content. L. Stefanov. (Abs.) 199
composition. A. Carruthers *et al.* .. 322
dextran content and clarification. F. Teschner and H. Ahlers. (Abs.) 47
effect of invert sugar on settling and filtration. R. Osvald. (Abs.) 166
effective alkalinity in Ireland. R. Carolan. (Abs.) 230
electrodialysis. M. Leszko. (Abs.) 324
electromagnetic treatment. M. M. Nechistik. (Abs.) 101
filtration. A. Lemaitre. (Abs.) 260
– K. D. Zhura. (Abs.) 258
– and clarification. W. Ewers 193
glutamine isolation. E. V. McCollum and A. A. Rider. (Pat.) 201
water cleaning. A. A. Gvozdik .. 139
hydrocyclone treatment. O. Asp .. 71
– – T. M. Les'kiv. (Abs.) 71
– – Z. D. Zhuravleva *et al.* (Abs.) 194
impurities. P. L. Devilliers and M. Lollier. (Abs.) 354
inorganic salts concentration. J. Buriánek and D. Slechtová. (Abs.) 171
ion exchange treatment. G. Assalini 232
– – – G. S. Benin. (Abs.) 136
– – – J. Buriánek and F. Durdík 196
– – – F. Durdík and J. Buriánek 166
– – – H. Hartl. (Abs.) 102
– – – E. Moebes. (Abs.) 257
– – – G. A. Paparelle. (Abs.) 19
– – – S. Popov. (Abs.) 193
– – – H. Shimizu. *et al.* (Pat.) 145
– – – P. Stransky and V. Valter 102
– – – S. Vajna. (Abs.) 354
– – – V. M. Volokhvyanskii. (Abs.) 20
– – – E. Walerianczyk *et al.* (Abs.) 102
lactic acid determination. V. Prey *et al.* (Abs.) 106
– – – K. Vukov. (Abs.) 260
levulose-fermenting bacterium. C. Zambonelli. (Abs.) 50
process times. L. E. Fleishman... 357
purification at Seiyo factory. E. Valkovsky. (Abs.) 49
quality and diffusion water quality. A. K. Kartashov and A. K. Gopak 71
resin decolorizing. S. Fumasoni *et al.* 50
sodium triphosphate content and molasses losses. A. D. Golubeva 194
storage at Carlton, U.S. (Brev.) .. 312
total acid determination. K. Bohn 108
volatile acids. H. D. Wallenstein .. 142
– – H. D. Wallenstein and K. Bohn 198
– – H. D. Wallenstein and H. Egler 199
Juices, cane:
cationic dye adsorption. M. C. Bennett and D. A. Haydon. (Abs.) 106
dehydrated, as animal fodder 147
dextran and starch determination. R. I. Nicholson and M. Horsley 200
effect of calcium and phosphate on clarification. M. C. Bennett and J. M. Ragnauth 13, 41
fermentation. E. Viciedo P. (Abs.) 75
– control. B. G. Krishnamurti .. 191
– – E. Lorenzo-Luaces. (Abs.) .. 287
filtration. B. B. Gairola. (Abs.) .. 289
– in Taiwan. C. A. Lee. (Abs.) .. 45

PAGE

Juice, cane:
ion exchange treatment. Anon... 134
– – – W. Chen. (Abs.) 46
– – – M. Lima G. (Abs.) 100
ionic calcium determination. P. Hidi and R. I. Nicholson 9
micro-organisms. J. Bruijn. (Abs.) 191
non-sugars contents in Philippines. F. V. Deomano. (Abs.) 289
processing research in U.S. L. F. Martin *et al.* (Abs.) 287
weighing. G. Lord and C. W. Davis 245

Kenya: new refinery. (Brev.) 332
Kestose: content of stored beet. M. Z. Khelemskii *et al.* (Abs.) 358
Kieselguhr: filtration. S. Gawrych .. 139
syrup treatment. P. Güray and M. Sütmen. (Abs.) 48
Knives, beet. G. Pohle. (Abs.) 258
– performance. P. S. Sichevoi 167

Lactic acid:
in beet juices. V. Prey *et al.* (Abs.) 106
– – K. Vukov. (Abs.) 260
– molasses. R. Carolan. (Abs.) .. 260
determination. V. Prey *et al.* (Abs.) 170
from sucrose. C. Boelhouwer *et al.* 263
Lamborn's Compendium of World Sugar Statistical Data. (B.B.) .. 169
Latin America: Free Trade Association 86
Levulinic acid from sucrose. Anon... 143
Levulose:
fermenting bacterium. C. Zambonelli. (Abs.) 50
reaction with amino acids. T. Shimizu and S. Sakai. (Abs.) 164
reducing power disappearance. P. L. Mottard. (Abs.) 326
salt complexes. N. A. Ramaiah and -.Vishnu. (Abs.) 24
– effect on polarization. N. A. Ramaiah and -.Vishnu. (Abs.) 74
from sucrose. P. T. Hsieh *et al.* .. 75
see also Invert sugar, Reducing Sugars *and* Sugars
F. O. Licht's International Sugar Economic Year Book and Directory 1958/59. H. Ahlfeld. (B.B.) 105
– – – 1959/60. H. Ahlfeld. (B.B.) 227
Lime:
burning and properties. G. Pohl .. 196
consumption in defecation. S. F. Skorbilin. (Abs.) 195
kiln heat requirements. H. Eigen 165
– natural gas-fired. V. P. Mekheda 136
– operation. S. Winkler. (Abs.) .. 47
metering device. B. B. Bandi. (Abs.) 352
milk-of-lime purification. Licencia Találmányokat Értékesitö Vállalat. (Pat.) 294
– – by hydrocyclone. S. Boucek and V. Valter. (Abs.) 139
– – – V. A. Zambrovskii. (Abs.) .. 72
– – – Z. D. Zhuravleva. (Abs.) .. 194
reactivity determination. G. Radermacher. (Abs.) 198
stone unloading. E. Gleich. (Abs.) 357
sucrose recovery from molasses. P. V. Golovin *et al.* (Abs.) 290
see also Ash *and* Clarification
Liquid sugar:
analysis. E. J. McDonald. (Abs.) 73
production. A. Lippman and L. Godchaux. (Pat.) 264
– and handling. G. Newton. (Abs.) 351
Losses:
bacterial, in diffusion. V. S. Kurbatova. (Abs.) 21
– – disinfection. E. M. Grishchenko and G. F. Tyazhelova. (Abs.) 257
– – – beet diffuser. P. Pavlas *et al.* 47
– – – O. Vajda. (Abs.) 167
– – calculation. W. Dörfeldt. (Abs.) 165
– during milling. K. Douwes Dekker
beet sugar. M. Drachovská and K. Sandera. (Abs.) 19
– – A. Pasetti. (Abs.) 168
– – M. Vajna-Papp. (Abs.) 108
– – K. Vukov. (Abs.) 226
cane borer damage. P. E. Rohrig 256
carbonatation muds. S. Zagrodzki and H. Zaorska. (Abs.) 71
in cut cane. K. Douwes Dekker .. 100
diffusion battery valve leakage. P. D. Golovkov. (Abs.) 138

INDEX

PAGE

Losses:
drought-affected cane. D. R. Parashar. (Abs.) 320
effect of sodium triphosphate. A. D. Golubeva. (Abs.) 194
in molasses. M. A. Kokhan and E. T. Simakova. (Abs.) 72
– – A. T. Kozhushko and Y. D. Kot 101
pol balance *vs.* sucrose balance. S. B. Datta. (Abs.) 18
stored beet. M. Drachovská. (Abs.) 47
– – M. Drachovská *et al.* (Abs.) .. 102
– – O. Neeb and H. Grupe. (Abs.) 353
– molasses. O. A. Bakyshinskaya 49
sugar determination with "Auto-Analyzer". J. K. T. Chang. (Abs.) 289
wilting of beet. S. Vajna. (Abs.) .. 193
see also Micro-organisms
Lubrication:
fault indicator. (T.N.) 202
oil reclamation. C. H. Lan. (Abs.) 134
oils containing sucrose esters. Esso Research & Engineering Co. (Pat.) 264
– – – A. J. Morway and W. E. Waddey. (Pat.) 329
spray. D. Bell. (Abs.) 253
turbine oils. R. L. Ashley. (Abs.) 254
Lump sugar: equipment. (T.N.) 81

Madagascar: *see* Malagasy Republic
Magnetic separators. (T.N.) 26
– B. Bedinszky. (Abs.) 321
Maintenance: factory running-down time. E. A. Gusev. (Abs.) 17
juice heater cleaning. A. A. Gvozdik 139
materials testing. W. Kehr. (Abs.) 134
"Thermit" welding. R. W. Vogt .. 256
welding repairs. C. W. Brett 282
Malagasy Republic: sugar stamp 148
Malaya: new sugar factory. (Brev.) .. 55, 283
Manures, *see* Fertilizers
Massecuite:
cooling. Chemical Staff, Kolhapur Sugar Mills Ltd. (Abs.) 352
crystal content determination. J. Buriánek and D. Siechtová. (Abs.) 229
– volume determination. V. D. Popov and I. G. Bazhal. (Abs.) 141
intercrystalline molasses viscosity. A. M. Zabolotskaya. (Abs.) 72
low grade crystallisation. K. Wagnerowski *et al.* (Abs.) 225
– – – nomogram. A. Sepitka 50
– – stations. Chemical Staff, Kolhapur Sugar Mills Ltd. (Abs.) 352
– – treatment. D. V. Gorban' .. 22
– – treatment. P. V. S. Sastry .. 352
prewashing. J. Bures *et al.* (Abs.) 72
purities. J. Kurzewski. (Abs.) 138
resistance heating. G. A. Wallace 254
stiffness indicator. T. Furutera and T. Okamoto. (Abs.) 192
temperature control. J. P. Komen 254
viscosity. M. Horawski. (Abs.) .. 52
– reduction with $CaCl_2$. Z. I. Tóth 49
yield calculation. C. G. M. Perk... 191
see also Boiling, Centrifugals, Crystallization *and* Pans, Vacuum
Mauritius:
cane agriculture. (H.M.-L.) 33
cyclones. (N.C.) 58, 86
cyclone effect on cane. A. D. Swan 122, 336
factory performances. J. Dupont de R. de St. Antoine and J. P. Lamusse. (Abs.) 288
Flacq United Estates Ltd. annual report 1959. (N.C.) 269
nematodes. J. R. Williams. (Abs.) 276
ratoon stunting. R. Antoine..... 182, 275
sugar crop 1960. (Brev.) 300, 332
– exports 1959. (Brev.) 176
John McNeil & Co. Ltd.: closure. 174
Mechanization: plough spring-actioned presser. P. C. Stone. (Abs.) 4
Mechanization, beet:
E. Manov. (B.B.) 259
M. I. Stepanov. (B.B.) 197
drilling. (H.M.-L.) 335
harvester. Bucher-Guyer A.G. .. 295
– Catchpole Engineering Co. Ltd. 295
– N. A. Christiansen. (Pat.) 231
– T. Danielsson. (Pat.) 145
– G. B. W. Farm Machinery Ltd. 53
– A. M. Jongeneel. (Pat.) 110
– O. E. Kroll. (Pat.) 296
– Overums Bruk. (Pat.) 295
– L. W. Schmidt. (Pat.) 265
– F. A. Standen & Sons Ltd. and P. Standen. (Pat.) 295

PAGE

Mechanization, beet:
harvester W. W. Stoll and E. R. Reuter 78
– C. van der Lely N.V. (Pat.) 361
– and cleaner. E. C. Rollins. (Pat.) 296
– – and conveying unit. S. F. Soucie and A. J. Bauer. (Pat.) 329
– clod crusher. J. R. Orelind and E. M. Clark. (Pat.) 329
lifter and topper. S. A. Andersen .. 53
loader. AB. Overums Bruk. (Pat.) 232
pneumatic harvesting. (Brev.) .. 363
thinner. British Sugar Corporation Ltd. and C. M. Bradford. (Pat.) 295
– C. N. Francis and G. Francis .. 264
– National Research Development Council. (Pat.) 361
– C. van der Lely N.V. (Pat.) 231
– Landbouwwerktuigen en Machinefabriek H. Vissers N.V. (Pat.) 231, 295
topper. Massey - Harris - Ferguson (Sales) Ltd. (Pat.) 76
– E. C. Rollins. (Pat.) 145
– feeler wheels. Massey-Ferguson (Great Britain) Ltd. (Pat.) .. 231
Mechanization, cane:
harvester. L. Perkins. (Abs.) 34
– and cutter. J. E. Douglas and J. Wood. (Pat.) 361
– feeder. E. M. van Buskirk. (Pat.) 145
in India. (H.M.-L.) 32
infield handling. Anon. (Abs.) 182
machinery. G. S. Bartlett. (Abs.) 209, 243
planter. (Brev.) 148
– in Hawaii. (Brev.) 27
rake. Anon. (Abs.) 212
rocking rakes. C. G. Story. (Abs.) 35
rotary slasher. S. O. Skinner and I. T. Freshwater. (Abs.) 305
in South Africa. Anon. (Abs.) 34
in Taiwan. W. C. Hsu. (Abs.) 122
unloader. E. C. Watt and L. A. Watt 265
Mexico:
new sugar factory. (Brev.) 349, 364
San Cristóbal crushing record. Anon. (Abs.) 287
sugar crisis. (N.C.) 86
Micro-organisms:
bacterial fertilizers in U.S.S.R. Anon. (Abs.) 119
beet diffuser losses. V. S. Kurbatova 21
– – – F. Pavlas *et al.* (Abs.) 47
– – – I. I. Prilutskii. (Abs.) 136
– – – O. Vajda. (Abs.) 167
– – waste water. J. Bulíček. (Abs.) 166
– – treatment. A. Carruthers *et al.* 277
"Busan 881" bactericide. J. W. Appling and M. Ugarte. (Abs.) .. 222
cane bacterial mottle. W. J. Dowson and A. C. Hayward 275
– juice treatment with formalin. B. G. Krishnamurti. (Abs.) .. 191
– milling. K. Douwes Dekker .. 100
control. S. Lorenz. (Abs.) 101, 107
– Z. I. Tóth. (Abs.) 324
hetero-ferment from raw beet juice. C. Zambonelli. (Abs.) 50
refined sugar infection. W. L. Owen 18
in sugar and juices. J. Bruijn. (Abs.) 191
Swedish granulated sugar. N. Weman. (Abs.) 165
testing methods. O. Vajda. (Abs.) 74
see also Fermentation *and individual fermentation products*
Mills, cane: (T.N.) 234, 330
Duncan Stewart & Co. Ltd. and K. S. Arnold. (Pat.) 173
automatic cane carrier control. C. Martinez. (Abs.) 320
carrier parts. (T.N.) 174
Corliss engine modifications. V. J. Bailliet. (Abs.) 222
drill for foundation bolts. O. M. Clarke. (Abs.) 256
engine speed control. V. J. Bailliet 287
grinding capacity in Taiwan. C. F. Tseng. (Abs.) 135
hydraulic gear. L. A. Tromp.... 91, 123
rubber belt intermediate carriers. R. Labiosa. (Abs.) 320
steam turbine drives. (T.N.) 146
– – – Duncan Stewart & Co. Ltd. 110
– – – in Hawaii. J. A. Dove and G. L. Jorn. (Abs.) 17
at Tongaat. Anon. (Abs.) 223
U.S. tandem in Argentina. (Brev.) 330
at Villanueva, Honduras. J. M. Santiago. (Abs.) 132
Milling, cane:
E. Oman. (Pat.) 25
analysis. H. W. Kerr. (Abs.) 261
bacterial losses. K. Douwes Dekker 100

PAGE

Milling, cane:
cane permeability. J. E. Holt.(Abs.) 256
compound imbibition process 26
crusher juice non-sugars. F. V. Deomano. (Abs.) 289
efficiency calculation. G. R. Roeleveld. (Abs.) 289
feed pressure. C. R. Murry 346
Mexico record. Anon. (Abs.) 287
mill settings. A. B. Chirgwin... 350, 352
– – U. Villar L. (Abs.) 46
Philippines extraction. D. Suerte 99
power consumption. D. S. Shann 255
roller speed. G. H. Jenkins. (Abs.) 256
tandem disinfection. J. W. Appling and M. Ugarte. (Abs.) 222
tests. W. R. Crawford and D. S. Shann. (Abs.) 254
– C. R. Murry. (Abs.) 255
unit load calculation. C. G. M. Perk 191
Mirrlees Watson Co. Ltd.:
engine cylinder replacement .. 146
Molasses:
in animal fodder. Anon. (Abs.).... 109
– – K. Cihal and L. Schmidt. (Abs.) 24
– – N. F. Kruse. (Pat.) 329
– – A. May. (Abs.) 109
– – J. G. J. van Ginneken. (B.B.) 197
colour. A. M. Malkov. (Abs.) 141
drying. George Scott & Son (London) Ltd. *et al.* (Pat.) 77
fat formation. A. M. Gad *et al.* .. 109
fermentable sugars analysis. V. M. Kats and T. P. Khvalkovskii .. 358
grading and feeding value. S. L. Crochet. (Abs.) 75
ion exchange treatment. Rohm & Haas Co. (Pat.) 294
ion exclusion purification. A. C. Reents and H. W. Keller. (Pat.) 265
mixing with absorbent material. F. Grossman. (Pat.) 53
mixtures analysis. L. E. Herriman 262
pump gears. P. S. Maksimuk. (Abs.) 22
reducing sugars determination. Y. Matsuo and A. Nanba. (Abs.) .. 360
Molasses, beet:
in animal feed. H. Hörning. (Abs.) 260
barium saccharate process. G. Battistoni. (Pat.) 145
– – – A. M. Thomsen. (Pat.) 265
betaine determination. O. Szabolcs and V. Prey. (Abs.) 107
– recovery. K. Hangyál and I. Radics. (Abs.) 167
by-products isolation. K. Xiezopolski. (Abs.) 109
calcium saccharate formation. P. V. Golovin *et al.* (Abs.) 290
– – process. A. N. Shakin *et al.* 103
– – throughput. V. I. Chopik 72
decolorizing. T. P. Khvalovskii .. 52
depth and weight gauges. V. I. Aksenfel'd. (Abs.) 291
evaluation. M. von Lilienskiold 225
glutamic acid determination. A. K. Kartashov *et al.* (Abs.) 359
– – from Steffen's filtrate. Ajinomoto Co. Inc. (Pat.) 144
– – – F. A. Hogan. (Pat.) 173, 265
glycerol production. Commercial Solvents (Great Britain) Ltd. .. 53
group separation of constituents. F. Schneider *et al.* (Abs.) 229
ion exchange treatment. Farbenfabriken Bayer A.G. (Pat.) 231
– – – H. Neumann. (Abs.) 47
– – – Assalini-B process. H. Schiwek. (Abs.) 353
– – – Quentin process. R. Hoffmann. (Abs.) 354
lactic acid content. R. Caroian .. 260
nitrogen compounds fractionation. J. B. Stark *et al.* (Abs.) 293
nomogram. K. P. Zakharov. (Abs.) 258
non-sucrose composition. J. B. Stark *et al.* (Abs.) 293
protein content and animal fodder. S. Eriksson. (Abs.) 75
purification. A. M. Malkov *et al.* 75
raffinose determination. R. I. Gol'dfarb and P. L. Danilenko .. 262
– – N. Nunoko. (Abs.) 200
– – R. Weidenhagen and H. Schiweck. (Abs.) 106
sodium and calcium determination. V. A. Tsirul'. (Abs.) 358
sugar crystallization. A. Mircev and M. Friml. (Abs.) 108
– – M. Mrkvicková. (Abs.) 200
– losses. M. A. Kokhan and E. T. Simakova. (Abs.) 72
– – A. T. Kozhushko and Y. D. Kot 101
– – in storage. O. A. Bakyshinskaya 49

INDEX

PAGE

Molasses, beet:
sugar recovery. International Minerals & Chemical Corp. (Pat.) 77
– – L. F. Makarevich *et al.* (Abs.) 257
– – H. Schiweck. (Abs.) 102
– – A. G. Sikiryavyi *et al.* (Abs.) 257
– – Friedrich Uhde G.m.b.H. (Pat.) 76
– – calculation. I. N. Akindinov .. 224
utilization in Italy. L. Gulminelli 75
viscosity. M. Horawski. (Abs.) 12
Molasses, cane:
animal fodder. (Brev.) 267
– – P. B. Brown *et al.* (Abs.) 75
D-arabitol fermentation. O. Lavin and J. W. Holloway. (Pat.) 265
browning products isolation. W. W. Binkley 187
– – molecular weight. W. W. Binkley 36
butanol production. M. Hongo .. 329
citric acid fermentation. J. H. Fried and J. G. Sandzam. (Pat.) 78
clarification and demineralization. A. M. Gad and A. S. El-Nockrashy 18, 46
deterioration in storage. G. Fromen and E. Bowland. (Abs.) 132
exhaustibility. G. H. Jenkins and V. Guruswamy. (Abs.) 17
fodder yeast production. J. P. Shukla and B. D. Kapoor. (Abs.) 172
Molasses, refinery: analysis. M. Komoto *et al.* (Abs.) 164
raffinose content. L. A. Vodolazskaya and M. T. Molchadskii .. 168
Morocco:
cane trials. G. Grillot. (Abs.) 336
sugar industry. (Brev.) 56, 235
purchase grant from U.S. (Brev.) 299
Motor bases. (T.N.) 81
Mycology: industrial. G. Smith. (B.B.) 227

Nepal factory plans. (Brev.) 27
Nicaragua refinery. (Brev.) 283
Nigeria sugar factory. (Brev.) 175
Nitrogen: compounds in molasses, fractionation. J. B. Stark *et al.* 293
see also Amino acids *and* Fertilizers
Northern Rhodesia: jaggery production 331
Ndola refinery. 56, 159

Obituary:
K. V. H. Hampel 147
Dr. H. Mosolff 363
R. J. S. Muir 176
W. W. Sprague 203
G. B. Williamson 147
Sir Alfred Wood 204
Odour in beet sugar. R. F. Olson. (Abs.) 142
Oil: firing. W. Teuber. (Abs.) 166
see also Lubrication

Packaging:
refined sugar. V. Y. Braginskii .. 135
– – F. I. Giryavenko. (Abs.) 135
– – in Southern Rhodesia. (Brev.) 28
sugar tablets. W. Patt. (Pat.) 265
Pakistan:
beet sugar production. (Brev.) 236
new sugar factory. (Brev.) 235
Sugar Commission recommendations H. Kampf 318
Pans, vacuum: (T.N.) 26
J. H. Barkley. (Abs.) 132
R. S. Patterson. (Abs.) 350
F. Serna S. (Abs.) 100
condensate removal. V. Y. Braginskii. (Abs.) 22
– – V. M. Pertsel' and V. N. Gorokh 168
gate valve. B. B. Bandi. (Abs.) .. 352
mechanical circulator. W. T. Abercrombie. (Abs.) 17
spray condensers. H. Balleyer 196
TsINS design. M. L. Vaisman *et al.* 134
see also Boiling *and* Entrainment
Paper, bagasse:
manufacture. Y. A. Fahmy and E. el Ashmawy. (Abs.) 328
– M. R. Monsalud. (Abs.) 328
– in Brazil. (Brev.) 236
– in China. (Brev.) 55
– in Colombia. (Brev.) 268
– in Guatemala. (Brev.) 364
– in India. (Brev.) 268, 363
– – Anon. 98
– in Venezuela. (Brev.) 364
see also By-products *and* Pulp, bagasse

PAGE

Paraguay sugar prospects. (Brev.) 337
Payment, beet:
in France. (N.C.) 30
punched-card system. W. Leibig .. 47
in U.K. (Brev.) 116
Payment, cane: in Philippines. C. B. Raymond. (Abs.) 327
in Puerto Rico. R. F. Goodwin .. 62
Pectin, beet: adhesive. I. M. Litvak and M. I. Barabanov. (Abs.) 22
polysaccharide composition. P. Andrews *et al.* (Abs.) 141
Peru: sugar exports 1956/58. (Stat.) 27
Pests: biological control. H.M.-L.) .. 3
infestation research. (B.B.) 169
Pests, cane:
black beetle control. C. L. Toohey 212
borer control. W. H. Long *et al.* .. 274, 306
– – L. C. Scaramuzza. (Abs.) 275
– – in Barbados. J. R. Metcalfe .. 5
– – with B.H.C. H. David. (Abs.) 211
– – "Endrin". L. D. Newsom 7
– – in Louisiana. Anon. (Abs.) .. 244
– – *Trichogramma* parasite. Anon. 34
– – – breeding. P. H. Porquez and F. T. Tabayoyong .. 34
– damage and leaf structure. H. Chang and C. Y. Shih. (Abs.) 211
– – and factory losses. P. E. Rohrig 256
control in Puerto Rico. L. F. Martorell. (Abs.) 89
fire-ant control, effect on borers. W. H. Long *et al.* (Abs.) 61
green borer. B. D. Gupta. (Abs.) 122
insect-resistant varieties. R. A. Agarwal. (Abs.) 4
"Lindane" *vs.* BHC dust. R. W. Mungomery. (Abs.) 212
moth borer control in Barbados. H. E. Box. (Abs.) 242
nematodes. Anon. (Abs.) 242
– in Mauritius. J. R. Williams 276
rat extermination. T. C. Fok. (Abs.) 276
– poison torpedo. Anon. (Abs.) .. 276
root borer. B. D. Gupta. (Abs.) .. 35
shoot borer in India. B. D. Gupta 243
top borer. B. D. Gupta. (Abs.) .. 121
in Venezuela. P. Guagliumi. (Abs.) 305
white grub control. V. L. Saplala 212
wireworm insecticides. A. A. Matthews. (Abs.) 35
woolly aphis control. Anon. (Abs.) 34
Petroleum: products in sugar industry. A. N. C. Ince. (Abs.) 287
pH:
automatic control. K. Cihal. (Abs.) 72
carbonatation. A. K. Kartashov *et al.* (Abs.) 355
control in "Sepa" process. R. Loserth. (Abs.) 263
diffusion supply water. A. K. Kartashov *et al.* (Abs.) 167
meters. W. Heimke. (Abs.) 226
– Z. Nitschke. (Abs.) 50
Philippine soils. Anon. (Abs.) 7
raw sugar. S. Böttger and W. Steinmetzer. (Abs.) 106
Philippines:
bulk handling. S. Z. Ureta. (Abs.) 320
cane agriculture. (H.M.-L.) 6, 338
– payment. C. B. Raymond. (Abs.) 327
– variety experiments. Anon. 7
crusher juice non-sugars contents. F. V. Deomano. (Abs.) 289
factory performances. T. R. Ancheta 320
– – J. P. Sto. Domingo. (Abs.) .. 320
fertilizer trials. Anon. (Abs.) 211, 242
Insular refinery. L. Cifra. (Abs.) .. 99
milling extraction. D. Suerte. (Abs.) 99
San Carlos factory. C. M. Madrazo 320
soil buffering capacities. Anon. .. 7
– potassium fixation. M. Robeniol 122
sugar production 1958/59. (Brev.) 116
Phosphates:
in sugar factory. V. M. Pertsel' *et al.* 224
– – – F. Steinbrunn. (Abs.) 224
see also Fertilizers
Physical chemistry: in sugar technology. V. Valter. (Abs.) 190
Poland:
automatic control. J. Browkin 193
heat economy improvement. A. Pomaranski. (Abs.) 136
optimum campaign length. S. Zagrodzki. (Abs.) 323
sugar industry. Y. N. Dobrovol'skii 138
Sugar Technologists' Association. Z. Kowalewski. (B.B.) 140
waste water economy. S. Kotaczowski and H. Bierwagen. (Abs.) 324
– – treatment and disposal. K. Skalski. (Abs.) 136

PAGE

Polarization:
E. Einsporn. (Abs.) 171
automatic digestion pipette. A. A. Grokhovskii and V. A. Lavrenyuk 262
– polarimeter. (T.N.) 174
– – I. Becker. (Abs.) 24
– – G. E. Fishter. (Corr.) 98
Java ratio and chemical control. V. G. Paranpan. (Abs.) 327
molasses analysis. V. M. Kats and T. P. Khvalkovskii. (Abs.) 358
– clarification. T. P. Khvalovskii 52
new clarifying precipitant. F. Teschner. (Abs.) 142
photoelectric polarimeters. A. Emmerich. (Abs.) 228
– – H. Wenking. (Pat.) 295
polarimeters. (T.N.) 114
salt effect on sucrose rotation. C. Vavrinecz. (Abs.) 261
– – – and levulose rotation. N. A. Ramaiah and -.Vishnu .. 74
sugar determination. E. Einsporn 170
vs. sucrose balance. S. B. Datta .. 18
Polyelectrolytes:
carbonatation in the presence of polyacrylamide. B. S. Zhalov .. 225
in juice clarification. K. Dusek and J. Buriánek. (Abs.) 102
– – A. K. Kartashov *et al.* (Abs.) 103
– – E. C. Vignes and R. de Froberville. (Abs.) 288
"Separan AP-30" in clarification. R. Ramirez. (Abs.) 190
Power: cane knives and shredders consumption. R. de Froberville and J. Dupont de R. de St. Antoine 288
Prices:
wholesale and retail sugar. (N.C.) 30
world raw sugar. (N.C.) 85, 206
see also Payment, Beet *and* Payment, Cane
Puerto Rico:
bulk handling. Anon. 17, 251
cane agriculture. (H.M.-L.) 306
– cutting. R. Bird. (Abs.) 90
– payment. R. F. Goodwin. (Abs.) 62
– pest control. L. F. Martorell .. 89
– transportation. R. J. Leffingwell 152
– variety trials. F. Mendez-Roig *et al.* (Abs.) 89
factory improvements. D. A. Draughon and J. Rodriguez C. .. 321
new cane variety. (Brev.) 268
rum pilot-plant studies. V. Rodriguez B. *et al.* (Abs.) 328
sugar crop 1960. (Brev.) 331
– industry and U.S. J. B. Candelas. 227
Worker in the Cane. S. W. Mintz 292
Pulp, bagasse:
British Paper and Board Industry Research Assoc. (Pat.) 173
D. S. Cusi. (Pat.) 112
Y. A. Fahmy and E. el Ashmawy 328
Hawaiian Development Co. and Crown Zellerbach Corp. (Pat.) .. 295
S. B. Knapp and J. D. Wethern .. 329
E. L. Powell. (Pat.) 232
E. A. Vázquez. (Abs.) 143
S. Wu. (Abs.) 263
for viscose. D. N. Mitra. (Abs.) .. 109
see also By-products *and* Paper, bagasse
Pulp, beet:
in animal feeds. H. Hörning. (Abs.) 260
briquetting. G. Frank. (Abs.) 143
– K. Gado. (Abs.) 166
drying. L. I. Shapiro. (Abs.) 225
– heat consumption. F. Baunack .. 356
moisture determination. G. S. Benin and V. A. Tsirul'. (Abs.) 358
– – A. E. Goodban *et al.* (Abs.) .. 230
– – I. Holly. (Abs.) 326
– – E. Nebe. (Abs.) 106
pectin adhesive. I. M. Litvak and M. I. Barabanov. (Abs.) 22
press. E. V. Jung. (Pat.) 112
pressing. S. A. Morrish. (Abs.) 291
removal from tower diffusers. M. J. Jalkanen. (Pat.) 110
yield calculation. W. Dörfeldt 165
Pulverizers. Z. D. Zhuravleva and A. M. Zhuravlev. (Abs.) 224
Pumps: (T.N.) 233
battery diffuser disinfectant. O. Vajda and T. Zágon. (Abs.) 49
for circulation during carbonatation and sulphitation. C. G. M. Perk 351
for imbibition. (T.N.) 26
molasses, gear relieving. P. S. Maksimuk. (Abs.) 22

INDEX

PAGE

Pumps:
stuffing box water supply. N. O. Kristy. (Abs.) 190
vacuum aspirators. K. V. Krasnyanskii. (Abs.) 291

Radio-isotopes: subsider flow tests. R. W. Ellis and L. R. Brain. (Abs.) 255
Raffinose:
in beet molasses. R. I. Gol'dfarb and P. L. Danilenko. (Abs.) 262
– – N. Nunoko. (Abs.) 200
– – R. Weidenhagen and H. Schiweck. (Abs.) 106
carboxylic acid esters. Sugar Research Foundation Inc. (Pat.) 76
in raw sugar. M. M. Chollet and M. C. Descat. (Abs.) 359
in refinery molasses. L. A. Vodolazskaya and M. T. Molchadskii .. 168
in stored beet. R. E. Finkner *et al.* 230
– – M. Z. Khelemskii *et al.* (Abs.) 358
Raw sugar:
Australian sale to Canada. (Brev.) 349
bulk handling in Australia. E. R. de Luzuriaga. (Abs.) 289
colour analysis. S. Sakai and T. Simizu. (Abs.) 164
Cuban sales. (N.C.) 238
determination of insoluble impurities. J. B. Alexander and K. Douwes Dekker. (Abs.) 24
filtrability. W. D. Wells. (Abs.) .. 261
grain size. J. A. Clark and F. García L. (Abs.) 17
impurities. M. Komoto *et al.* (Abs.) 164
London terminal market. (N.C.) .. 301
New York Exchange new contract 84
– – – world contract revision..... 300
pH measurement. S. Böttger and W. Steinmetzer. (Abs.) 106
prices. (N.C.) 85, 206
U.S. authorization of San Domingo imports. (N.C.) 302
– supplies in 1961. (N.C.) 302
– – quota 1960. (Stat.) 237, 268
Reducing sugars:
determination. M. Ando. (Abs.) .. 228
– V. K. Nizovkin and I. Z. Emel'yanova. (Abs.) 230
– A. J. Philippu. (Abs.) 260
– J. Zajic. (Abs.) 74
– in molasses. Y. Matsuo and A. Nanba. (Abs.) 360
see also Dextrose, Invert Sugar, Levulose *and* Sugars
Refined sugar:
bacterial infection. W. L. Owen .. 18
bulk density in storage. G. H. Baldt and E. F. Compton. (Abs.) 360
– handling. L. E. Mahoney and W. L. Reed. (Abs.) 351
– storage at St. Lawrence Sugar Refineries Ltd. G. Constable .. 351
Chambon tableting and packing plant. V. Z. Shapran. (Abs.) 223
deterioration in storage. J. Dubourg and P. Devillers. (Abs.) 327
drying. B. M. Braginskaya *et al.* 321
floc composition. M. F. Stansbury and C. L. Hoffpauir. Abs.) 141
invert sugar determination. J. Knight and C. H. Allen..... 344
mechanical bagging. V. A. Cherednik and B. G. Kolesnik. (Abs.) 18
packaging. F. I. Giryavenko. (Abs.) 135
packing and counting. V. Y. Braginskii. (Abs.) 135
packeting in Southern Rhodesia .. 28
palletized storage. H. G. Gerstner and L. J. Lousteau. (Abs.) 351
production *vs.* white sugar. W. Chen 163
vitaminization with ascorbic acid. V. A. Cherednik and E. A. Gusev 46
Refinery:
automatic controls at Redpath. J. A. Swan and J. D. Lewis. (Abs.) 132
– melter control at El Palmar. F. Cordovez Z. (Abs.) 18
– – – at Imperial Sugar Co. Anon. 135
equipment corrosion. E. Leclerc *et al.* (Abs.) 226
Herreshoff char kiln at Montreal. W. A. B. Allen. (Abs.) 45
Jordan tenders. (Brev.) 349
in Kenya. (Brev.) 332
liquor colouring matter. T. Yamane and F. Onda. (Abs.) 200
magma moisture determination. G. S. Benin and V. A. Tsirul' .. 358
– – – E. B. Lysyanskii. (Abs.) 327
– – – I. F. Zelikman. (Abs.) 321

PAGE

Refinery:
melters at Umfolozi. C. G. M. Perk 17
in Northern Rhodesia. (Brev.) 56, 159
Philippines. L. Cifra. (Abs.) 99
plans in U.S. (Brev.) 236
products colour determination. P. Honig. (Abs.) 360
– iron determination. Y. Matsuda 200
in El Salvador. (Brev.) 27
– – G. O. Winter. (Abs.) 352
steam accumulator. Y. Hasimoto 221
sulphitation plant at Umfolozi. C. G. M. Perk (Abs.) 17
John Walker & Co., Greenock. Anon. 69
water distribution scheme. A. P. Parkhomets. (Abs.) 253
Refining: G. Gismondi. (Abs.) 19
automatic affination control at Victorias. E. F. Gamboa. (Abs.) 289
colour formation. F. M. Chapman *et al.* (Abs.) 350
granular carbon. A. Vásquez D. .. 287
highly-coloured sugar. M. Abdulakh 18
industrial sugars production. Anon. 292
ion exchange. S. Iwashina. (Abs.) 134
– – Z. Menci *et al.* (Abs.) 222
– – plant size calculations. J. Buriánek and F. Durdík .. 321
– – resin degradation. S. Iwashina 221
– – – J. Stamberg and F. Krska 321
– – – K. Suzuki. (Abs.) 192
– – – regeneration. S. Iwashina .. 18
– – – T. Tanaka. (Abs.) 221
magma density control. K. Inagaki 221
sucrose losses in water. J. K. T. Chang. (Abs.) 289
see also Affination, Bone char, Carbon *and* Ion Exchange
Refractometers: (T.N.) 114
Réunion:
cane gummosis. D. d'Emmerez de Charmoy. (Abs.) 242
– varieties. Anon. (Abs.) 152
sugar production 1959. (Brev.) 148
weeds and cane diseases. D. d'Emmerez de Charmoy. (Abs.) 305
Roumania beet crop 1959. (Brev.) .. 116
Rubber: sugar factory uses. R. W. Hurst. (Abs.) 253
Rum: pilot-plant studies in Puerto Rico. V. Rodríguez B. *et al.* .. 328

Sacks, *see* Bags
St. Kitts (Basse Terre) Sugar Factory Ltd. report 1959. (Brev.) 28
El Salvador:
refinery. (Brev.) 27
– G. O. Winter. (Abs.) 352
sugar production. (Brev.) 235
Scale:
boiler feed treatment. P. T. Dunaev 357
cleaning. (T.N.) 297
– R. Moroz. (Abs.) 350
electromagnetic treatment of juices. M. M. Nechistik. (Abs.) 101
evaporator cleaning. Anon. (Abs.) 71
– – B. Arce. (Abs.) 350
– – B. A. Bourne and P. S. Francis (Abs.) 132, 221
– – G. I. Stasev and G. F. Tyazhelova. (Abs.) 104
– – by ultrasonics. M. L. Vaisman *et al.* (Abs.) 190
inhibition by aconitic acid. K. Löwy 45
– sodium phosphate. V. M. Pertsel' *et al.* (Abs.) 224
juice heater cleaning. L. D. Drinnen 255
– pipe cleaning. S. Gawrych..... 48
Soil:
buffering capacities in Philippines. Anon. (Abs.) 7
conditioner. M. J. Hiler. (Pat.) 53
conservation on slopes. T. D. Archibald. (Abs.) 276
– – by terracing. Anon. (Abs.) .. 152
drainage machines. J. E. Baker .. 243
drying and fertility. (H.M.-L.) 154
effect of "Dalapon" on microflora. L. A. Magee *et al.* (Abs.) 306
fertility. T. G. Cleasby. (Abs.) 209
losses in terraced and unterraced fields. T. T. Chang. (Abs.) 122
potassium fixation in Philippines. M. Robeniol. (Abs.) 122
relationship with water. T. V. Marshall. (B.B.) 259
rotary tillage. W. H. Carter. (Abs.) 181
South African sugar belt. B. E. Beater. (B.B.) 140

PAGE

Soil:
water content and cane growth. B. Walker. (Abs.) 336
see also Fertilizers *and* Irrigation
South Africa:
Australian mill at Tongaat. Anon. 223
cane agriculture. (H.M.-L.) 61
Sir J. L. Hulett & Sons Ltd. 1959/60 report. (N.C.) 334
sugar belt soils. B. E. Beater. (B.B.) 140
– crop 1959/60. (N.C.) 117
– Experiment Station report 1958/59 5
– research at S.M.R.I. Anon. (Abs.) 253
– Year Book 1958/59. (B.B.) 140
sulphitation plant at Umfolozi refinery. C. G. M. Perk. (Abs.) 17
Southern Rhodesia: refined sugar packeting. (Brev.) 28
Triangle Ltd. expansion. (Brev.) .. 300
Spain: cane cultivation. A. Marassi .. 152
sugar production 1959/60. (Brev.) 204
Spraying, *see* Diseases, Pests *and* Weeds
Standard Steel Corporation: cube sugar plant orders. (Brev.) 266
Starch in cane juice. R. I. Nicholson and M. Horsley. (Abs.) 200
Statistics:
Brazil sugar exports 235
Canadian sugar imports..... 175
Cuban sugar exports 1959..... 147
European beet area 1960/61 175
– – sugar production..... 331
Indonesian exports 1957/59 332
Japan sugar imports 1957/59 364
Lamborn Compendium. (B.B.) 169
Peru sugar exports 1956/58 27
Taiwan sugar exports 1956/58 56
U.K. sugar imports and exports 115
U.S. supply quotas 1960 268
Venezuela sugar data, 1954/59 363
West Indies sugar production 175
world free market requirements 1960 54
– sugar crops 82, 298
Steam:
accumulator in refinery. Y. Hasimoto. (Abs.) 221
consumption in remelting with water and juice. C. G. M. Perk. (Abs.) 17
economy and power. W. S. Facey 350
thermocompression at Zduny factory. A. Swedrowski and J. Jakubowski. (Abs.) 168
turbine requirements. W. Bartoszek 48
– – J. Nowakowski. (Abs.) 104
see also Boilers *and* Power
Storage:
bin level control. (T.N.) 114
damp-proof warehouse floor. Anon. 223
frozen beet pulp samples. A. Ulrich and K. Ohki. (Abs.) 359
godown contruction. S. L. Phansalker and N. A. Ramaiah. (Abs.) 134
jaggery. P. V. S. Rao and N. V. M. Rao. (Abs.) 134
molasses deterioration. G. Fromen and E. Bowland. (Abs.) 132
– – O. A. Bakyshinskaya. (Abs.) .. 49
packaged gur. P. V. S. P. Rao and N. V. M. Rao. (Abs.) 163
refined sugar. H. G. Gerstner and L. J. Lousteau. (Abs.) 351
– – deterioration. J. Dubourg and P. Devillers. (Abs.) 327
Storage, beet:
S. E. Fridman. (Abs.) 20
N. D. Grishchenko. (Abs.) 49
A. Karatnicki. (Abs.) 103
M. Z. Khelemskii. (Abs.) 257
H. Matheis and P. Berger. (Abs.) 165
L. Palestro. (Abs.) 20
chemical changes. O. V. Braun .. 108
– – M. Z. Khelemskii *et al.* (Abs.) 358
effect of health. M. Drachovská .. 22
mechanization. (Brev.) 363
piling. V. A. Novikov and N. M. Kichigin. (Abs.) 20
raffinose content changes. R. E. Finkner *et al.* (Abs.) 230
sugar losses. M. Drachovská. (Abs.) 47
– – M. Drachovská *et al.* (Abs.) .. 102
– – O. Neeb and H. Grupe. (Abs.) 353
– – and respiration rate. M. Vajna-Papp. (Abs.) 108
Storage, cane: L. A. Tromp..... 39, 66
see also Bulk Storage
Strachan & Henshaw Ltd. London office. (Brev.) 266
Sucrose:
ammonia in sodium sucrate. W. A. P. Black and E. T. Dewar 172
balance and undetermined losses. S. B. Datta. (Abs.)..... 18

INDEX

PAGE

Sucrose:
in beet. H. Hirschmüller and H. Hörning. (Abs.) 52
– H. Hörning and H. Hirschmüller 107
– J. Veillard. (Abs.) 49
– irradiation effect. (Brev.) 319
boiler feed water. G. Ziegigansberger. (Abs.) 290
in cane. G. Samuels *et al.* (Abs.) 274
carbamide esters. Farbenfabriken Bayer A.G. (Pat.) 77
carboxylic acid esters. Sugar Research Foundation Inc. (Pat. 76
catalytic hydrogenation. C. Boelhouwer *et al.* (Abs.) 328
Clerget factor. R. B. Acotto. (Abs.) 74
– – calculations. T. R. Ancheta 293
conversion of lactic acid. C. Boelhouwer *et al.* (Abs.) 263
crystallization. F. H. C. Kelly 327
– rate. P. V. Golovin *et al.* (Abs.) 224
– – A. Mircev and M. Friml. (Abs.) 108
defective crystal structure. M. Kamoda and T. Yamane 155
destruction in aqueous solutions. S. Z. Ivanov. (Abs.) 261
effect of salts on polarization. N. A. Ramaiah and -.Vishnu. (Abs.) 74
– – – G. Vavrinecz. (Abs.) 261
esters. A. W. Anderson. (Pat.) 173
– A. W. Anderson and J. L. Meistad 111
– V. K. Babayan and A. K. Atikian 329
– S. Komori *et al.* (Abs.) 172
– A. R. Menning. (Abs.) 263
– G. P. Touey and H. E. Davis 265
– in lubricating oils. Esso Research & Engineering Co. (Pat.) 264
– – – A. J. Morway and W. E. Waddey. (Pat.) 329
– purification. T. C. M. Davis. (Pat.) 329
– recovery. Distillers Co. Ltd. (Pat.) 77
evaporator condensate. E. D. Gillette. (Abs.) 133
hydroxypropylation. A. W. Anderson. (Pat.) 145
inversion time. W. Schoch and M. Roulet. (Abs.) 74
ion exchange inversion. A. Emmerich and G. Schachten 229
levulose manufacture. P. T. Hsieh *et al.* (Abs.) 75
modified phenol-formaldehyde resins. R. P. Cox. (Abs.) 172
oxyalkylation. M. de Groote and D. H. Pe.tingill. (Pat.) 329
polarization. E. Elnsporn. (Abs.) 170
printing ink production. R. J. Baird 296
radiolysis. S. V. Starodubtsev *et al.* 170
reaction with glycol-cleaving oxidants. A. K. Mitra and A. S. Perlin. (Abs.) 360
retention by bone char. F. G. Carpenter. (Abs.) 73
salt complexes. N. A. Ramaiah and -.Vishnu. (Abs.) 24
solubility. D. F. Charles 126
– G. Vavrinecz. (Abs.) 326
– W. S. Wise. (Abs.) 24
solution rates in electrolytes. F. Schneider *et al.* (Abs.) 229
– viscosity. M. Horawski. (Abs.) 52
– – P. Naffa and C. Frégé. (Abs.) 107
– – conductivity and supersaturation. W. S. Graham. (Abs.) 360
see also Polarization, Sugar *and* Sugars

Sudan: sugar factory. (Brev.) 147, 267
– trade agreement with U.A.R. 38

Sugar:
alcohol extraction. V. E. Haury 296
analysis of pure and commercial grades. G. Mantovani. (Abs.) 24
in animal fodder. G. E. Combs *et al.* 328
– – S. Hoflund and O. Svanberg 143
brown. A. Lachmann. (Pat.) 111
building bricks manufacture. (Brev.) 300
bulk transport. (T.N.) 233
– – L. G. Weller. (Pat.) 78
cane engineering handbook. E. Hugot. (B.B.) 105
crystal conglomeration. M. Kamoda and T. Yamane. (Abs.) 228, 229
crystallization in thin films. H. E. C. Powers 307
extraction from beet. A. Bonelli 103
fluidized bed cooler. P. H. Petri 351
heat consumption in drying. F. Baunack. (Abs.) 356
International formed. (Brev.) 84
iron separation. B. Bedinszky 321
light scattering. C. J. Rieger and F. G. Carpenter. (Abs.) 142
melter. L. Hegedüs. (Abs.) 99

PAGE

Sugar:
micro-organisms. J. Bruijn. (Abs.) 191
– in Sweden. N. Weman. (Abs.) 165
moisture determination. E. B. Lysyanskii. (Abs.) 327
– – T. Nagahara and C. Tsutsumi 199
– – by drying. T. Nagahara and C. Tsutsumi. (Abs.) 360
odour. R. F. Olson. (Abs.) 142
packeted, mechanical handling. Brecknell, Dolman & Rogers Ltd. and H. J. Dolman. (Pat.) 231
presses. (T.N.) 174
production economics in the U.S. beet industry. R. H. Cottrell 196
recovery from beet and molasses. Friedrich Uhde G.m.b.H. (Pat.) 76
– – – molasses. G. Battistoni 145
– – – International Minerals & Chemical Corp. (Pat.) 77
– – – H. Schiweck. (Abs.) 102
– – – A. M. Thomsen. (Pat.) 265
– – – calculation. I. N. Akindinov 224
– – – saccharate process. V. I. Chopik. (Abs.) 72
remelting low product. Anon. (Abs.) 226
– – – steam consumption. C. G. M. Perk. (Abs.) 17
Research Foundation: changes 176
stamp. (Brev.) 148
technology nomenclature. H. Laucke 226
thermal decomposition rate. G. Vavrinecz. (Abs.) 326
throwers. (T.N.) 146
– S. W. Lucas. (Pat.) 77, 145
washing in centrifugals. J. P. Lamusse and M. Randabel. (Abs.) 288
world consumption. A. Viton and F. Pignalosa 284
Year Book 1958. (B.B.) 51
yellow, production. I. F. Zelikman 258
see also Fondant Sugar, Liquid Sugar, Raw Sugar, Refined Sugar, Sucrose, Sugars *and* White Sugar

Sugars:
beet pectin polysaccharide. P. Andrews *et al.* (Abs.) 141
colorimetric determination. S. Bose *et al.* (Abs.) 327
esterification in butyrolactone. J. Werner and F. A. Hessel. (Pat.) 296
esters salt production. Farbenfabriken Bayer A.G. (Pat.) 295
hydrolysis and chromatography. K. Täufel and H. Ruttloff. (Abs.) 142
industrial. Anon. (B.B.) 292
– paper chromatoelectrorheophoresis. S. Geriaxhe and J. Casimir 74
– chromatography. F. Schneider and A. Emmerich. (Abs.) 74
in raw sugar. M. M. Cholliet and M. C. Descat. (Abs. 359
in stored beet. O. V. Braun. (Abs.) 108
see also Dextrose, Invert Sugar, Levulose *and* Reducing Sugars

Sulphates, *see* Ash

Sulphitation:
circulation pumps and tanks. C. G. M. Perk. (Abs.) 351
plant at Umfolozi refinery. C. G. M. Perk. (Abs.) 17
see also Clarification

Swaziland: Big Bend sugar factory 363
Mhlume factory. A. Hammond 183

Sweden: sugar micro-organisms. N. Weman. (Abs.) 165

Switzerland: beet loading. K. Peisker 225
new sugar factory. (Brev.) 236

Syrup:
effect of polysaccharide on viscosity. G. K. Sutherland 185
filtration in Taiwan. C. A. Lee 45
sucrose crystallization rate. A. Mircev and M. Friml. (Abs.) 108
see also Liquid sugar

Taiwan:
bagasse board manufacture. O. Wyss 172
cane agriculture. W. C. Hsu. (Abs.) 306
– interplanting with rice and beet. H. Chang 242, 244
– – – melons. H. Chang and R. C. Lin. (Abs.) 276
– irrigation. W. C. Hsu. (Abs.) 276
increasing mill capacity. C. F. Tseng 135
juice and syrup filtration. C. A. Lee 45
rat extermination. T. C. Fok. (Abs.) 276
sugar crop 1958/59 16
– exports 1956/58. (Stat.) 56
– industry. Anon. 219

PAGE

Taiwan:
tractor farming. W. C. Hsu. (Abs.) 122
trade agreement with Japan. (Brev.) 235
weed control. N. P. Chow. (Abs.) 211
white sugar colour index. W. Chen and Z. H. Shu. (Abs.) 171

Tanganyika: sugar plans. (Brev.) 267
sugar production. Anon. (Abs.) 62

Tate & Lyle Ltd.: report 1958/59. (N.C.) 29
sugar ownership dispute. (N.C.) 333
– transport. (Brev.) 81

Tate & Lyle Investments Ltd.: 1959 report. (N.C.) 149

Temperature: measuring instruments testing system. (T.N.) 234

Thailand: sugar imports ban. (Brev.) 330

Trade Notices:
Adequate Weighers Ltd. 204
Bonallack & Sons Ltd. 113
Brooks Instrument Company Inc. 233
Brooks Rotameter Company 330
Maschinenfabrik Buckau R. Wolf A.G. 202
Büttner-Werke A.G. 26, 81
Cambridge Instrument Co. Ltd. 330
113, 174, 330
Crofts (Engineers) Ltd. 26, 81, 114, 146, 174
Dallow Lambert & Co. Ltd. 234
Davey, Paxman & Co. Ltd. 234
A/S. De danske Sukkerfabrikker 330
Degenhardt & Co. Ltd. 114, 174
R. & J. Dick Ltd. 266
Dunford & Elliott Process Engineering Ltd. 79, 233
Elcontrol Ltd. 146, 266
Electronic Switchgear (London) Ltd. 114
Electromagnets Ltd. 26
Electroweighers Ltd. 113
Ellis Optical Co. 146
Exactor Ltd. 202
Fairbairn Lawson Combe Barbour Ltd. 266
Flexible Drives (Gilmans) Ltd. 297
Graver Water Conditioning Co. 79
Hilger & Watts Ltd. 202
Honeywell Controls Ltd. 26, 234
Honolulu Iron Works Company 202
International Combustion Ltd. 362
George Kent Ltd. 81, 174, 202, 234
William Kenyon & Sons Ltd. 26, 81, 114
Link-Belt Company. 26, 114, 146, 174, 330
Magco Ltd. 297
Mirrlees Watson Co. Ltd. 26, 114, 146, 174, 202, 234
Nu-Swift Ltd. 81
Permutit Co. Ltd. 80, 330
Pott, Cassels & Williamson Ltd. 114
W. G. Pye & Co. Ltd. 146
Richardson Scale Co. Inc. 26
Richardson Scale Co. Ltd. 113
D. Robinson & Co. Ltd. 362
Rotameter Manufacturing Co. Ltd. 202
Rotatools (U.K.) Ltd. 297
Salzgitter Maschinen A.G. 330
Sandvik Steel Band Conveyors Ltd. 114
Siemen & Hinsch m.b.H. 233
Standard Steel Corporation 174
Stephens-Adamson Mfg. Co. 81, 114
Thermix Industries Ltd. 297
Turner Brothers Asbestos Co. Ltd. 202, 234
Carl Zeiss 114, 174

Transport:
jaggery. P. V. S. Rao and N. V. M. Rao. (Abs.) 134
rail car haulage machines. (T.N.) 26

Transport, cane:
economies. Anon. (Abs.) 90
in Hawaii. Anon. (Abs.) 154
in Puerto Rico. R. J. Leffingwell 152
oil-fired locomotive. L. R. Hart and J. N. Banks. (Abs.) 244

Transport, Sugar, *see* Bulk Transport

Tube: cleaning equipment. (T.N.) 297

Triangle Ltd.: expansion. (Brev.) 300

Tunisia:
beet sugar factory. (Brev.) 116
sugar plans. (Brev.) 235
trade agreement with France. (Brev.) 28

Turbines: (T.N.) 146
lubricating oils. R. L. Ashley 254
steam consumption. W. Bartoszek 48
– – J. Nowakowski. (Abs.) 104

Turkey: sugar production 1959. (Brev.) 206, 268

Uganda:
overhead irrigation. (Brev.) 84
sugar production. (Brev.) 116
– – Anon. (Abs.) 35

INDEX

PAGE

Union of Soviet Socialist Republics:
automatic sugar factory. (Brev.) .. 148
bacterial fertilizers. Anon. (Abs.) 119
beet cultivation in Siberia. (Brev.) 83
Belgian sugar factory. (Brev.) 97
British beet equipment order 28
– – factories contract. (Brev.) 56
dryers from U.K. (Brev.) 266
French factories. (Brev.) 176
purchase of Cuban sugar. (N.C.) .. 58, 85
sugar crop 1959. (Brev.) 94
– deal with Cuba. (Brev.) 331
– expansion. (Brev.) 148
trade agreement with Finland 364
U.K. centrifugals order. (Brev.) .. 116

United Arab Republic: trade agreement with Sudan. (Brev.) 38
– *see also* Egypt

United Kingdom:
beet crop 1959/60. (N.C.) 57
– (Brev.) 116
– sugar equipment for Soviet Union 28
– – industry. J. C. Macdonald 19
– virus yellows in 1958. R. Hull .. 88
Booker Bros. McConnell & Co. Ltd. 1959 report. (N.C.) 177
British Sugar Corporation Ltd. results 1959. (N.C.) 117, 205
– – – share status. (N.C.) 177
– – – 13th Technical Conference .. 217
centrifugals for U.S.S.R. (Brev.) .. 116
dryers for U.S.S.R. (Brev.) 266
Government Chemist report 1958/59 325
industrial sugars production. Anon. 292
London terminal market. (N.C.) .. 301
– – – decimalization. (Brev.) 332
John McNeil & Co. Ltd. cease business. (Brev.) 174
Sugar Board report 1959/60. (N.C.) 302
– imports and exports. (Stat.) 115
– transport. (Brev.) 81
Tate & Lyle Ltd. report 1958/59 .. 29
Tate & Lyle Investments Ltd. 1959 report. (N.C.) 149
U.S.S.R. order for beet factories .. 56
John Walker & Co. refinery. Anon. 69
see also British Sugar Corporation Ltd. *and* Tate & Lyle Ltd.

United States of America:
American Sugar Refining Co. 1959 report. (N.C.) 150
beet acreage deristricted. (Brev.) .. 363
– factory closed. (Brev.) 27
Brookfield Distribution Terminal. W. Newton. (Abs.) 351
cane breeding at Canal Point. P. H. Dunckelman. (Abs.) 7
– flowering. S. J. P. Chilton *et al.* 244
– mill for Argentina. (Brev.) 330
– mosaic. I. L. Forbes and R. J. Steib. (Abs.) 209
– – R. J. Steib and I. L. Forbes .. 209
– – control. Anon. (Abs.) 244
– pest control. Anon. (Abs.) 244
– processing research. L. F. Martin *et al.* (Abs.) 287
– research in Florida. T. Bregger *et al.* (Abs.) 276
– variety comparison. L. P. Hebert and M. T. Henderson. (Abs.) 152
– – tests. T. J. Stafford *et al.* (Abs.) 61
Cary combine tests. L. Perkins .. 34
continental sugar crop. (N.C.) 238
domestic sugar situation. (N.C.) ... 269
Enterprise factory rebuilt. Anon. 133
fertilizer trials. L. G. Davidson .. 244
Great Western Sugar Co. bulk handling. Anon. (Abs.) 48
Honolulu Iron Works Company developments. (Brev.) 202
Imperial Sugar Co.'s automatic melt station. Anon. (Abs.) 135
juice storage at Carlton factory .. 312
Louisiana-Florida sugar manual. F. I. Meyers. (B.B.) 169
– sugar crop 1959. (N.C.) 118
New York Exchange new contract 84
– – – World Contract revision .. 300
possible new refinery. (Brev.) 236
purchase grant to Morocco. (Brev.) 299
relations with Cuba. (N.C.) 2, 85, 205
San Domingo imports authorization 302
sugar mills in Cuba nationalized .. 268
– policy and Puerto Rico. J. B. Candelas. (B.B.) 227
– supplies 1961. (N.C.) 302, 333
– supply quotas 1960 ..... 30, 237, 268
West Indies Sugar Corporation liquidation. (Brev.) 55
see also Hawaii

PAGE

Valves: rotary discharge. (T.N.) 233
vacuum pan. B. B. Bandi. (Abs.) 352
Varieties, cane:
in Argentina. R. F. de Ullivari and C. M. Guerineau. (Abs.) 7
in Barbados. G. C. Stevenson. (B.B.) 23
bunch planting. C. S. Yang *et al.* .. 31
disease resistance. E. V. Abbott .. 61
fertilizer tests. F. T. Tabayoyong and F. A. Basila. (Abs.) 34
harvesting time and yields. L. P. Hebert *et al.* (Abs.) 336
insect resistance. R. A. Agarwal .. 4
in Louisiana. T. J. Stafford *et al.* 61
N50/211. Anon. (Abs.) 34
Philippines. Anon. (Abs.) 7
Puerto Rico. (Brev.) 268
– – F. Mendez-Roig *et al.* (Abs.) . 89
Q canes. Anon. (Abs.) 153, 212
Q 66. P. Volp. (Abs.) 35
Q 68. C. G. Story. (Abs.) 35
Réunion. Anon. (Abs.) 152
response to phosphorus and potash. F. A. Basila. (Abs.) 122
splitting. M. M. Singh and H. Singh 275
U.S. L. P. Hebert and M. T. Henderson. (Abs.) 152
yield in Argentina. W. E. Cross 87
see also Cane breeding
Venezuela:
automatic control of melters at Central El Palmar. F. Cordovez Z. 18
bagasse paper. (Brev) 364
cane pests. P. Guagliumi. (Abs.) .. 305
proposed factory. (Brev.) 28
sugar statistics 1954/59. (Stat.) .. 363
Verenigde H.V.A.-Maatschappijen N.V. 1959 report. (N.C.) 206
Vietnam: new sugar factories. (Brev.) 6, 147, 176
Viscosity:
effect of polysaccharides on syrup. G. K. Sutherland 185
intercrystalline molasses. A. M. Zabolotskaya. (Abs.) 72
reduction during boiling. Z. I. Tóth 49
sucrose solutions. P. Naffa and C. Frégé. (Abs.) 107
– – effect of temperature. W. S. Graham. (Abs.) 360
– – massecuite and molasses. M. Horawski. (Abs.) 52

Water:
in beet pulp. A. E. Goodban *et al.* 230
– – E. Nebe. (Abs.) 106
boiler feed salt traces. S. Zagrodzki and H. Zaorska. (Abs.) 108
– – sugar determination. G. Ziegl-gansberger. (Abs.) 290
– – treatment. P. T. Dunaev. 357
– – – G. Ramchander. (Abs.) 134
centrifugal drive control. J. Hertrich 145
condensate sugar content. E. D. Gillette. (Abs.) 133
cooling tower of bagasse board 75
determination methods. G. S. Benin and V. A. Tsirul'. (Abs.) 358
diffusion supply pH. A. K. Kartashov *et al.* (Abs.) 167
– – pollution. A. K. Kartashov and A. K. Gopak. (Abs.) .. 71
– – quality. G. S. Benin and V. I. Gordienko. (Abs.) 224
– – treatment. G. S. Benin. (Abs.) 290
flume, purification. J. Gebler. (Abs.) 357
laboratory ion exchange plants .. 80, 330
losses in terraced and unterraced cane fields. T. T. Chang. (Abs.) 122
refinery distribution scheme. A. P. Parkhomets. (Abs.) 253
– magma. I. F. Zelikman. (Abs.) 321
soil content and cane growth. B. Walker. (Abs.) 336
– – and fertility. (H.M.-L.) 154
– relationship. T. V. Marshall 259
in sugar. T. Nagahara and C. Tsutsumi. (Abs.) 199, 360
– and refinery magma. E. B. Lysyanskii. (Abs.) 327
waste: biological treatment. A. Carruthers *et al.* 277
– in Poland. S. Kotaczowski and H. Bierwagen. (Abs.) 324
– press water impurities. P. L. Devilliers and M. Loilier. (Abs.) 354
– purification in Germany. H. Limprich. (Abs.) 226
– river pollution. W. Schwartz. ... 357
– – – in Braunschweig. H. Limprich. (Abs.) 258
– settling tanks. V. N. Peletminskii 193

PAGE

Water:
waste sugar loss determination. J. K. T. Chang. (Abs.) 289
– treatment. J. Bulicek. (Abs.) ... 166
– – F. Edeline *et al.* (Abs.) 165
– – D. Kramer. (Abs.) 165
– – O. H. Phipps. (Abs.) 323
– – in Poland. K. Skalski. (Abs.) 136
see also Irrigation *and* Milling
Wax, cane:
analysis. Anon. (Abs.) 143
– N. Weidenhof. (Abs.) 143
polymeric aldehydes. J. A. Lamberton and A. H. Redcliffe. (Abs.) 109
purification. R. S. Dubey and Walchandnagar Industries Ltd. 361
Weed control:
E. R. Stamper. (Abs.) 244
with 2,4-D. E. R. Stamper. (Abs.) 7
exotic weeds. (H.M.-L.) 120
grasses. E. H. Fox. (Abs.) 152
in Hawaii. N. S. Hanson. (Abs.) .. 153
herbicide trials. N. P. Chow. (Abs.) 211
pre-emergence herbicides. J. R. Nail *et al.* (Abs.) 120
in Réunion. D. d'Emmerez de Charmoy. (Abs.) 305
"Simazine". H. E. Roth 207
Weigher:
automatic. (T.N.) 113
– beet scales. V. N. Tret'yakov .. 195
bag weigher. (T.N.) 113
continuous. (T.N.) 113
– G. Petit. (Abs.) 256
Weighing:
automatic control. (T.N.) 146
cane, juice and bagasse. G. Lord and C. W. Davis 245
West Indies:
Antigua Sugar Factory Ltd. report 1958/59. (Brev.) 28
Barbados: cane breeding. (H.M.-L.) 121, 243
– – varieties. G. C. Stevenson 23
– borer control. H. E. Box. (Abs.) 242
– – – J. R. Metcalfe. (Abs.) 5
– harbour at Bridgetown. (Brev.) 363
Jamaica: Bookers acquire Innswood Estate Ltd. (Brev.) 300
– cane agriculture. (H.M.-L.) 337
St. Kitts (Basse Terre) Sugar Factory Ltd. report 1959. (Brev.) .. 28
Sugar Association Handbook 1958 105
– production. (Stat.) 175
Trinidad: Caroni Ltd. report 1958/59. (Brev.) 84
– Sugar research at ICTA. W. S. Wise. (Abs.) 253
West Indies Sugar Corporation: liquidation. (Brev.) 55
White sugar:
G. Gismondi. (Abs.) 19
colour index in Taiwan. W. Chen and Z. H. Shu. (Abs.) 171
moisture determination. G. S. Benin and V. A. Tsirul'. (Abs.) 358
potassium imido-disulphonate contamination. W. H. Parker 339, 313
quality testing. A. Pasetti. (Abs.) 358
vs. refined sugar production. W. Chen. (Abs.) 163
silos. (T.N.) 330
– K. Clz. (Abs.) 222
whiteness determination. K. Jánosfy. (Abs.) 326
– value chart. S. Devanarayana .. 228
yellowing and nitrogen content. V. Prey *et al.* (Abs.) 326
see also Refined sugar *and* Sugar
Worker in the Cane. S. W. Mintz. (B.B.) 292
World:
free market quotas... 58, 117, 203, 237, 302
– – requirements 1960. (Stat.) 54
New York sugar contract. (Brev. 300
raw sugar prices. (N.C.) 85, 206
sugar consumption: A. Viton and F. Pignalosa 284
crops. (Stat.) 82, 298
– statistics. (B.B.) 169
wholesale and retail sugar prices 30
see also International

Yeast:
bakers', manufacture. A. J. C. Olsen 213, 247
fodder, from molasses. J. P. Shukla and B. D. Kapoor. (Abs.) 172
molasses purification. A. M. Malkov *et al.* (Abs.) 75
see also By-products
Yugoslavia: sugar factories. (Brev.) .. 83
sugar industry. M. Nikitovic. (Abs.) 354

PAGE

ABBOTT, E. V. Cane diseases, varietal reaction. (Abs.) 61
ABDULAKH, M. Refining highly-coloured sugar. (Abs.) 18
ABE, S., *see* SAKAGUCHI, K.
ABERCROMBIE, W. T. Boiling with mechanical circulation. (Abs.) .. 17
ABLYAEV, S. A. *see* STARODUBTSEV, S. V.
ABRAMOVA, M. A., *see* GOLOVIN, P. V.
ACHKASOVA, G. V., *see* DOBRONRAVOV, F. N.
ACOTTO, R. B. Clerget factor determination. (Abs.) 74
ADSUAR, J. Cane diseases. (Abs.) 62
AGARWAL, K. N. and PRASAD, S. G. Entrainment. (Abs.) 17
see also PRASAD, S. G.
AGARWAL, R. A. Insect resistance of canes. (Abs.) 4
AHLERS, H. *see* TESCHNER, F.
AHLFELD, H. European sugar economies. (B.B.) 23
F. O. Licht's International Sugar Economic Year Book and Directory, 1958/59. (B.B.) 105
– – – 1959/60. (B.B.) 227
AJINOMOTO CO. INC. Glutamic acid from Steffen's filtrate. (Pat.) .. 144
see also OGAWA, T.
AKINDINOV, I. N. Molasses sugar recovery. (Abs.) 224
AKSENFEL'D, V. I. Molasses depth and weight gauges. (Abs.) 291
ALEXANDER, J. B. and DOUWES DEKKER, K. Determination of insoluble impurities in raw sugar. (Abs.) 24
ALLEN, C. H., *see* KNIGHT, J.
ALLEN, W. A. R. Herreshoff char kiln at Montreal refinery. (Abs.) 45
AMDING, F., *see* SCHNEIDER, F.
AMERICAN CYANIMID CO., *see* BLANN, W. A.
AMERICAN SUGAR REFINING CO., *see* LACHMANN, A.
ANCHETA, T. R. Philippine factory performances. (Abs.) 320
Sucrose calculations. (Abs.) 293
ANDERSEN, S. A. Beet lifter and topper. 53
ANDERSON, A. W. Sucrose esters. (Pat.) 173
Sucrose hydroxypropylation. (Pat.) 145
and MELSTAD, J. L. Sucrose esters. 111
ANDO, M. Reducing sugars determination. (Abs.) 228
ANDREWS, P. *et al.* Beet pectin polysaccharide composition. (Abs.) .. 141
ANTOINE, R. Ratoon stunting in Mauritius. 182, 275
ANZALONE, L., *see* STAMPER, E. R.
APPLING, J. W. and UGARTE, M. "Busan 881" bactericide. (Abs.) 221
ARAVAMUDHAN, P. Cane spraying with terpineol. (Abs.) 120
ARCE, B. Evaporator scale removal. 350
ARCENAUX, G. Cane quality evaluation. 223
ARCHIBALD, T. D. Soil conservation on slopes. (Abs.) 276
ARNOLD, K. S., *see* DUNCAN STEWART & CO. LTD.
ARNTH-JENSEN, N. and DOHN, H. D.d.S. diffuser. (Abs.) 48
ASHLEY, R. W. Turbine lubricating oils. (Abs.) 254
EL ASHMAWY, E., *see* FAHMY, Y. A.
ASP, O. Hydrocyclones for carbonatation juice. (Abs.) 71
ASSALINI, G. Beet juice ion exchange treatment. (Pat.) 232
ASSELBERGS, C. J. *et al.* Laboratory diffuser 95
ATIKIAN, A. K., *see* BABAYAN, V. K.

BABAYAN, V. K. and ATIKIAN, A. K. Sucrose ester production and purification. (Pat.) 329
BAH, H. S., *see* CHENG, C. T. *and* LIU, Y. T.
BAILLIET, V. J. Corliss engine modifications. (Abs.) 222
Mill engine speed control. (Abs.) 287
BAINS, A. S. Cane spacing and nitrogen application. (Abs.) 152
BAIRD, R. J. Printing ink from sucrose. 296
BAJAJ, B. S., *see* VASUDEVA, R. S.
BAKER, J. E. Land drainage machines. 243
BAKER PERKINS INC., *see* IRVING, H. F.

PAGE

BAKYSHINSKAYA, O. A. Sugar losses in stored molasses. (Abs.) 49
BALDT, G. H. and COMPTON, E. F. Bulk density of stored refined sugar 360
BALLESTER, M. 'Elguanite' in clarification. (Abs.) 164
BALLEYER, H. Spray condensers. (Abs.) 196
BALOH, T. Evaporator heat transmission nomogram. (Abs.) 48
Thick juice Brix control in evaporation. (Abs.) 20
BALYURA, V. I., *see* MAKAREVICH, L. F.
BANDI, B. B. Factory equipment. 352
BANKS, J. N., *see* HART, L. R.
BARABANOV, M. I., *see* LITVAK, I. M.
BARAUD, J., *see* GENEVOIS, L.
BARKLEY, J. H. Vacuum pans. (Abs.) 132
BARNES, A. C. Cane growing economics. 7
BARRETT, E. P., *see* SCHWER, F. W.
BARTA, E. J., *see* MORGAN, A. I.
BARTLETT, G. S. Cane machinery... 209, 243
BARTON, R. W. Bulk handling. (Abs.) 133
BARTOSZEK, W. Turbine steam requirements. (Abs.) 48
BASILA, F. A. Cane response to phosphorus and potash. (Abs.) 34, 122
see also TABAYOYONG, F. T.
BATENGA, D. E. and SING, P. H. Three-massecuite boiling scheme. (Abs.) 289
BATTISTONI, G. Molasses barium saccharate process. (Pat.) 145
BAU, Y. S., *see* LEU, S. L.
BAUER, A. J., *see* SOUCIE, S. F.
BAUNACK, F. Heat consumption in drying sugar and beet pulp. (Abs.) 356
FARBENFABRIKEN BAYER A.G. Ion exchange treatment of beet molasses. (Pat.) 231
Levan sucrase production. (Pat.) .. 361
Sucrose carbamide esters. (Pat.) .. 77
Sugars ester salts production. (Pat.) 295
BAZAN, B., I. Centrifugals. (Abs.) 100
BAZHAL, I. G., *see* POPOV, V. D.
BEALE, R. F., *see* NICKLIN, J. H.
BEATER, B. E. South African sugar belt soils. (B.B.) 140
BECKER, I. Zeiss automatic polarimeter. 24
BEDINSZKY, B. Iron removal from sugar 321
BEECKMANS DE WEST MEERBECK, I., *see* EDELINE, F.
BELL, D. Spray lubrication. (Abs.) .. 253
BENDER, A. E. Dictionary of Nutrition and Food Technology. (B.B.) .. 259
BENIN, G. S. Carbonatation juice ion exchange treatment. (Abs.) 136
Diffusion water ion exchange treatment. (Abs.) 290
and GORDIENKO, V. I. Diffusion supply water composition. (Abs.) 224
and TSIRUL', V. A. Moisture determination methods. (Abs.) 358
BENNETT, M. C. Flocculating capacity adsorbents in cane juice. (Abs.) 99
and HAYDON, D. A. Cationic dye adsorption in cane juice. (Abs.) 106
and RAGNAUTH, J. M. Effect of calcium and phosphate on cane juice clarification. 13, 41
BEPPU, T., *see* SAKAGUCHI, K.
BERBALK, H., *see* PREY, V.
BERGER, P., *see* MATHEIS, H.
BHARGAVA, O. P., *see* JOSHI, K. A.
BIERWAGEN, H., *see* KOTACZOWSKI, S.
BINDMAN, M. I. Moronovsk bagging station. (Abs.) 196
BINKLEY, W. W. Browning products isolation from cane molasses. 187
Molecular weight of cane molasses dialysed browning products. 36
BIRD, R. Cane cutting in Puerto Rico 90
BLACK, W. A. P. and DEWAR, E. T. Ammonia in sodium sucrate 172
BLANN, W. A. Juice ion-exchange treatment. (Pat.) 112
BOELHOUWER, C. *et al.* Sucrose catalytic hydrogenation. (Abs.) 328
Sucrose decomposition and lactic acid formation. (Abs.) 263
BÖHM, O. Beet diffuser power consumption. (Abs.) 258
and LIBY, O. Beet diffuser corrosion prevention. (Abs.) 21
– Water gas-jet purifier. (Abs.) 258
see also RAIS, K.
BOHN, K. Total acid determination 108
see also WALLENSTEIN, H. D.
BONELLI, A. Sugar extraction from beet 103
BORTNOVSKII, K. A. Centrifugal time cycle variations. (Abs.) 352
BOSE, S. *et al.* Colorimetric determination of sugars. (Abs.) 327

PAGE

BÖTTGER, S. and STEINMETZER, W. Glutamic acid decarboxylase in beet. (Abs.) 261
– Glutamine in beet factory products. (Abs.) 293
– pH of raw sugar. (Abs.) 106
BOUCEK, S. and VALTER, V. Milk-of-lime hydrocyclone purification 139
see also VALTER, V.
BOURNE, B. A. and FRANCIS, P. S. Evaporator scale removal. (Abs.) 132
– Evaporator scale removal and clarification. (Abs.) 221
BOWLAND, E., *see* FROMEN, G.
BOWMAN, R. S. and MALANCHUK, M. Bone char performance evaluation 73
BOX, H. E. Moth borer control in Barbados. (Abs.) 242
BOZHKO, P. L. Carbonatation automatic control. (Abs.) 49
BRADFORD, C. M., *see* BRITISH SUGAR CORPORATION LTD.
BRAGADÍN, E. A. and DÍAZ, H. B. Cane tops and trash as animal fodder. (Abs.) 7
BRAGINSKAYA, B. M. *et al.* Drying refined sugar. (Abs.) 321
BRAGINSKII, V. Y. Pan condensate removal. (Abs.) 22
Refined sugar packing and counting 135
BRAIN, L. R., *see* ELLIS, R. W.
BRAUN, O. V. Chemical changes in stored beet. (Abs.) 108
BRAUNSCHWEIGISCHE MASCHINEN-BAUANSTALT. Beet diffuser. (Pat.) 25, 76
Centrifugal feeding device. (Pat.) 361
see also KAETHER, W.
BRECKNELL, DOLMAN & ROGERS LTD. and DOLMAN, H. J. Mechanical handling of packeted sugar. (Pat.) 231
BREGGER, T. *et al.* Cane research in Florida. (Abs.) 276
BREMER, G. Cane chromosome number and embryo-sac development.. 90
BRETT, C. W. Welding repairs..... 282
BREZINSKII, B. I. *see* SOKOLOVSKII, A. A.
BRIEGHEL-MÜLLER, A. Carbonatation 103, 137
BRITISH PAPER AND BOARD INDUSTRY RESEARCH ASSOC. Bagasse pulp manufacture. (Pat.) 173
BRITISH SUGAR CORPORATION LTD. and BRADFORD, C. M. Beet thinner.. 295
BROADBENT, F. and GRIMWOOD, G. L. Centrifugal automatic control.... 352
BROWKIN, J. Automatic control in Poland. (Abs.) 193
Diffusion temperature programme indicator. (Abs.) 196
Fluid level control. (Abs.) 21
BROWN, P. B. *et al.* Bagasse-molasses animal fodder. (Abs.) 75
BROWN & ROOT INC., *see* POWELL, E. L.
BRUIJN, J. Micro-organisms in sugar and juices. (Abs.) 191
BRUKNER, B. Clarifiers. (Abs.) 49
BUCHER-GUYER, A. G. Beet harvester 295
BULÍCEK, J. Waste water treatment 166
BURES, J. *et al.* Massecuite prewashing 72
BURIÁNEK, J. and DURDÍK, F. Ion exchange refinery plant size calculation. (Abs.) 321
– Juice softening by ion exchange 196
and SLECHTOVÁ, D. Inorganic salts in juices, etc. (Abs.) 171
– Ion exchange massecuite crystal content determination. (Abs.) .. 229
see also DURDÍK, F. *and* DUSEK, K.
BURYAKOV, N. I., *see* VAISMAN M. L.

CALIFORNIA & HAWAIIAN SUGAR REFINING CORP. Fondant sugar production. (Pat.) 53
CAMBRESIER, A., *see* LECLERC, E.
CANDELAS, J. B. U.S. sugar policy and the Puerto Rican sugar industry 227
CAROLAN, R. Effective alkalinity of Irish juices. (Abs.) 230
Lactic acid in beet molasses. (Abs.) 260
CARPENTER, F. G. Bone char abrasion hardness. (Abs.) 52
Bone char sucrose retention. (Abs.) 73
see also RIEGER, C. J.
CARRUTHERS, A. and OLDFIELD, J. F. T. Ion exchange. (Abs.) 323
et al. Beet juice composition. (Abs.) 322
– Waste water biological treatment 277

INDEX

PAGE

CARTER, W. H. Rotary tillage of soil 181
CASAS S., R. Cane juice clarification 222
CASHEN, N. A., *see* MARTIN, L. F.
CASIMIR, J. *see* GERLAXHE, S.
CATCHPOLE ENGINEERING CO. LTD. Beet harvester. (Pat.) 295
CENTRAL SOYA CO. INC., *see* KRUSE, N. F.
N. V. CENTRALE SUIKER MIJ. Glutamic acid from Steffen's waste. (Pat.) 25
Glutamic acid from vinasse. (Pat.) 25
see also WATERMAN, H. I.
CHANDRA, S. *et al.* Distillery wash and carbonation muds as manure 62
CHANG, H. Beet interplanting with rice and cane. (Abs.) 242
and LIN, R. C. Cane interplanting with paddy and melons. (Abs.) 276
and LIU, M. C. Cane planting depth effect on growth. (Abs.) 276
and SHIH, C. Y. Cane leaf structure and borer damage. (Abs.) 211
CHANG, J. K. T. Sucrose losses in water 289
CHANG, T. T. Soil and water losses in terraced and unterraced cane fields. (Abs.) 122
CHAPMAN, F. M. *et al.* Colour formation in process. (Abs.) 350
CHARLES, D. F. Sucrose solubility in water 126
CHATRATH, M. S., *see* VASUDEVA, R. S.
CHEMICAL STAFF, KOLHAPUR SUGAR MILLS LTD. B massecuite cooling 352
Low-grade working in Deccan mills 352
CHEN, W. Ion exchange treatment of cane juice. (Abs.) 46
White sugar *vs.* refined sugar production. (Abs.) 163
and SHU, Z. H. Taiwan white sugar colour index. (Abs.) 171
CHENG, C. T. and BAH, H. S. Citric acid recovery. (Abs.) 263
CHEREDNIK, V. A. and GUSEV, E. A. Ascorbic acid in refined sugar and KOLESNIK, B. G. Mechanical bagging refined sugar. (Abs.) 18
CHILTON, S. J. P. *et al.* Cane flowering 244
see also STEIB, R. J.
CHIRGWIN, A. B. Mill settings. (Abs.) 350, 352
CHOLLET, M. M. and DESCAT, M. C. Raw sugar chromatographic analysis. (Abs.) 359
CHOPIK, V. I. Calculating throughput of saccharate plant. (Abs.) 72
Juice feed pipe nomogram. (Abs.) 22
CHOPRA, S. K. Press mud as manure 122
CHOU, J. C. Mobile animal feed dehydrator. (Abs.) 263
CHOW, N. P. Herbicide trials. (Abs.) 211
CHRISTIANSEN, N. A. Beet harvester 231
CHRISTOFFERSEN, H. J. and MÖLLER, C. M. Beet diffuser. (Pat.) 264
CHU, T. L. *et al.* Cane downy mildew resistance. (Abs.) 211
CHUGUNOV, I. G. Carbonatation juice clarifiers. (Abs.) 22
CHUMICHEV, A. S., *see* SIKIRYAVYI, A. G.
CIFRA, I. Insular refinery, Philippines 99
CÍHAL, K. Automatic control of pH. 72
Evaporator boiling-out with EDTA and SCHMIDT, L. Molasses in animal fodder. (Abs.) 166
Cíž, K. White sugar silos. (Abs.) 24
see also VALTER, V. 222
CLARK, E. M., *see* ORELIND, J. R.
CLARK, J. A. and GARCÍA L., F. Raw sugar grain size. (Abs.) 17
CLARKE, O. M. Drill for cane mill foundation bolts. (Abs.) 256
CLEASBY, T. G. Soil fertility. (Abs.) 209
CLEMENTS, H. F. Cane culture. (B.B.) 325
COLL, E. E., *see* MARTIN, L. F.
COMBS, G. E. *et al.* Sugar in pig fodder 328
COMMERCIAL SOLVENTS (GREAT BRITAIN) LTD. Glycerol from beet molasses. (Pat.) 53
see also LAVIN, O.
COMMONWEALTH ENGINEERING CO. OF OHIO. Dextran fibre production 231
see also HILER, M. J.
COMPTON, E. F., *see* BALDT, G. H.
CONSTABLE, G. Bulk storage at St. Lawrence Sugar Refineries Ltd. 351
CORDOVEZ Z., F. Melter automatic control at Central El Palmar 18
J. C. CORRIGAN CO. INC., *see* CORRIGAN, J.
CORRIGAN, J. Bulk sugar storage. (Pat.) 329
COTTRELL, R. H. U.S. beet sugar production economies. (Abs.) 196
COX, R. P. Sucrose-modified phenol-formaldehyde resins. (Abs.) 172

CRAWFORD, W. R. and SHANN, D. S. Cane milling tests. (Abs.) 254
CROCHET, S. L. Molasses grading and feeding value. (Abs.) 75
CROSS, W. E. Cane smut in Tucumán 239, 271
Varietal yield in Argentina 87
CROWN ZELLERBACH CORPORATION, *see* HAWAIIAN DEVELOPMENT CO.
CULP, E. J. and DMITROVSKY, M. Char sweet water disposal. (Abs.) 45
CUSI, D. S. Bagasse pulp process. (Pat.) 112

DABROWSKA, D., *see* WAGNEROWSKI, K.
DABROWSKI, C., *see* WAGNEROWSKI, K.
DAMMON, R. A., *see* BROWN, P. B.
DANIELSSON, T. Beet harvester. (Pat.) 145
DANILENKO, P. L. *see* GOL'DFARB, R. I.
DANIL'TSEV, V. A. *see* SOKOLOVSKII, A. A.
DATTA, S. B. Sucrose balance and undetermined losses. (Abs.) 18
DAVEY, T. N., *see* KHANNA, M. L.
DAVID, H. Cane borer control with B.H.C. emulsion. (Abs.) 211
DAVIDSON, L. G. Fertilizer trials in U.S. (Abs.) 244
DAVIS, C. W., *see* LORD, G.
DAVIS, H. E., *see* TOUEY, G. P.
DAVIS, T. C. M. Sucrose ester purification. (Pat.) 329
DEGREZ, R., *see* LECLERC, E.
DEITZ, V. R. Fifth Technical Session Bone Char Proceedings, 1957 and ROOTAVE, H. M. Bone char organic and ions removal. (Abs.) 73
DEOMANO, F. V. Non-sugars in Philippine crusher juice. (Abs.) 289
DESCAT, M. C., *see* CHOLLET, M. M.
DEVANARAYANA, S. Sugar whiteness value chart. (Abs.) 228
DEVILLERS, P. and LOILIER, M. Beet diffusion. (Abs.) 137
– Impurities in diffusion juice and press water. (Abs.) 354
see also DUBOURG, J.
DEWAR, E. T., *see* BLACK, W. A. P.
DÍAZ, H. B., *see* BRAGADÍN, E. A.
DIETZEL, W. Continuous centrifugals 350
DISTILLERS CO. LTD. Sucrose ester recovery. (Pat.) 77
DMITROVSKY, M., *see* CULP, E. J.
DOBRONRAVOV, F. N. *et al.* Effect of invert sugar on clarification 141
see also ZHURAVLEVA, Z. D.
DOBROVOL'SKII, Y. N. Polish sugar industry. (Abs.) 138
DOBRZYCKI, J. Photoelectric colorimeter. (Abs.) 199
see also ZAGRODZKI, S.
DOHN, H., *see* ARNTH-JENSEN, N.
DOLMAN, H. J., *see* BRECKNELL, DOLMAN & ROGERS LTD.
DÖRFELDT, W. Diffusion losses. (Abs.) 165
DORMAL, E. Beet factory continuous operation. (Abs.) 19
Carbonatation. (Abs.) 101
DORR-OLIVER INC. Multitray clarifier 231
DOUGLAS, J. E. and WOOD, J. Cane harvester with cutter. (Pat.) 361
DOUWES DEKKER, K. Bacterial losses in milling. (Abs.) 100
Sucrose losses in cut cane. (Abs.) 100
see also ALEXANDER, J. B.
DOUWES DEKKER, L. C. G., *see* GRAHAM, W. S.
DOVE, J. A. and JORN, G. L. Mill turbine drives in Hawaii. (Abs.) 17
DOW CHEMICAL CO., *see* ANDERSON, A. W.
DOWSON, W. J. and HAYWARD, A. C. Queensland bacterial mottle pathogen 275
DRBIKOWSKA, A. Beet rasp. (Abs.) 199
DRACHOVSKÁ, M. Effect of beet health on storage. (Abs.) 22
Losses in stored beet. (Abs.) 47
and SANDERA, K. Biological losses *et al.* Sucrose losses in stored beet 19, 102
DRAUGHON, D. A. and RODRIGUEZ C., J. Puerto Rican factory improvements. (Abs.) 321
E. F. DREW & CO. INC., *see* BABAYAN, V. K.
DRINNEN, L. D. Juice heater scale removal. (Abs.) 255
DUBEY, R. S. and WALCHANDNAGAR INDUSTRIES LTD. Cane wax purification. (Pat.) 361

DUBOURG, J. and DEVILLERS, P. Refined sugar deterioration in storage. (Abs.) 327
and LEMAITRE, A. Dextrose alkaline degradation. (Abs.) 171
DUNAEV, P. T. Boiler feed water treatment. (Abs.) 357
DUNCKELMAN, P. H. Cane breeding at Canal Point. (Abs.) 7
Cane growing in containers. (Abs.) 121
DUPONT DE R. DE ST. ANTOINE, J. Chemical control. (Abs.) 262
and LAMUSSE, J. P. Mauritius factory performances. (Abs.) 288
and LE GUEN, F. Cane fibre determination. (Abs.) 262
see also DE FROBERVILLE, R.
DURDÍK, F. and BURIÁNEK, J. Thin juice softening by ion exchange 166
see also BURIÁNEK, J.
DURIRON CO. INC., *see* STOLTENBERG, D. A.
DUSEK, K. and BURIÁNEK, J. Polyelectrolytes as coagulants. (Abs.) 102
DUTTON, J. V., *see* CARRUTHERS, A.
DYKHNE, S. V. and ZUBOV, A. Y. Boiling control. (Abs.) 133

EASTMAN KODAK CO., *see* TOUEY, G. P.
EDELINE, F. *et al.* Waste water treatment. (Abs.) 165
EDGERTON, C. W. Cane diseases. (B.B.) 169
EGLER, H., *see* WALLENSTEIN, H. D.
EGEN, H. Lime kiln heat requirements 165
EINSPORN, E. Sugar polarization .. 170, 171
ELLIS, R. W. and BRAIN, L. R. Subsider flow tests. (Abs.) 255
EMEL'YANOVA, I. Z., *see* NIZOVKIN, V. K.
D'EMMEREZ DE CHARMOY, D. Gummosis in Réunion. (Abs.) 242
Weeds and cane diseases in Réunion 305
EMMERICH, A. Photoelectric polarimeters. (Abs.) 228
and SCHACHTEN, G. Sucrose inversion by ion exchange. (Abs.) 229
see also SCHNEIDER, F.
EMŐDI, F. and TISZÁVARY, O. Drum filters at Mezőhegyes factory 49
ERIKSSON, S. Molasses protein in animal fodder. (Abs.) 75
ESCHER WYSS A. G. Centrifugals automatic feed. (Pat.) 77
D'ESCRIVAN, T. E., *see* BROWN, P.B.
ESSO RESEARCH & ENGINEERING CO. Sucrose esters in lubricating oils 264
see also MORWAY, A. J.
EWART, G. Y. Fire-fighting fog nozzle 336
Irrigation control in Hawaii. (Abs.) 181
EWERS, W. Carbonatation juice clarification and filtration. (Abs.) 193
Filtration costs at Haldensleben 290

FACEY, W. S. Steam economy and power. (Abs.) 350
FAHMY, Y. A. and EL ASHMAWY, E. Paper and pulp from bagasse 328
FEILLAFÉ, S. M., *see* PARISH, D. H.
FEL'DSHON, Z. D. Continuous tower diffuser. (Abs.) 195
FINKNER, D. M., *see* FINKNER, R. E.
FINKNER, R. F. *et al.* Raffinose in stored beet. (Abs.) 230
FISCHER, H. J. BT diffusion at Rossleben. (Abs.) 226
Sangerhausen rotary diffuser. (Abs.) 139
FISHTER, G. E. Autolmatic polarimeter 98
FLEISHMAN, L. E. Juice processing time. (Abs.) 357
see also SHAKIN, A. N.
FOK, T. C. Rat extermination in Taiwan. (Abs.) 276
FORBES, I. L. and STEIB, R. J. Cane mosaic. (Abs.) 209
see also STEIB, R. J.
FORT, C. A., *see* MARTIN, L. F.
FOSH, W. H., *see* GEORGE SCOTT & SON (LONDON) LTD.
FOSTER, D. H. *et al.* Supersaturation fluctuation in boiling. (Abs.) 254
FOX, E. H. Grass control with "Dalapon". (Abs.) 152
FRANCIS, C. N. and FRANCIS, G. Beet thinner. (Pat.) 264
FRANCIS, G., *see* FRANCIS, C. N.
FRANCIS, P. S., *see* BOURNE, B. A.
FRANK, G. Dry pulp pressing. (Abs.) 143
FRÉGÉ, C., *see* NAFFA, P.

INDEX

PAGE

FREPON, N. R. Beet slicer automatic control. (Abs.) 137
Beet washer power requirements.. 257
FRESHWATER, I. T., *see* SKINNER, S. O.
FRICKE, P. Centrifugals charging.... 354
FRIDMAN, S. E. Unloading and storing beet. (Abs.) 20
FRIED, J. H. and SANDZAM, J. G. Citric acid fermentation of molasses. (Pat.) 78
FRILOUX, J. J., *see* MARTIN, L. F.
FRIML, M., *see* MIRCEV, A.
DE FROBERVILLE, R. and DUPONT DE R. DE ST. ANTOINE, J. Cane knives power consumption. (Abs.) 288
see also VIGNES, E. C.
FROMEN, G. and BOWLAND, E. Molasses deterioration in storage. (Abs.) 132
FUJII, S., *see* KOMOTO, M.
FUJIYAMA, Y., *see* OGAWA, T.
FULLER COMPANY., *see* WELLER, L. G.
FUMASONI, S. *et al.* Decolorizing beet juice by resins. (Abs.)..... 50
FURUTERA, T. and OKAMOTO, T. Massecuite stiffness indicator .. 192

GABOVICH, M. S. and PRILUTSKII, I. I. Diffuser screw performance. (Abs.) 357
GAD, A. M. and EL-NOCKRASHY, A. S. Cane molasses clarification. (Abs.) 18, 46
et al. Fat from molasses. (Abs.)... 109
GADÓ, K. Beet pulp briquetting. (Abs.) 166
GAIROLA, B. B. Carbonatation juice filtration. (Abs.) 289
GALLACHER, P. J., *see* CARRUTHERS, A.
GAMBOA, E. F. Affination automatic control at Victorias. (Abs.)..... 289
GARCÍA L., F., *see* CLARK, J. A.
GARDNER, A. L., *see* KHANNA M. L.
GAWRYCH, S. Filtration with kieselguhr Scale in juice pipes. (Abs.)..... 48
G. B. W. FARM MACHINERY LTD. Beet harvester. (Pat.) 53
GEBLER, J. Flume water purification 357
GEE, A. Bone char colour and ash removal mechanism. (Abs.) 46
GENERAL ANILINE & FILM CORPORATION, *see* WERNER, J.
GENERALOVA, V. V.
see STARODUBTSEV, S. V.
GENEVOIS, L. and BARAUD, J. Fusel oil composition. (Abs.) 109
GERASIMENKO, A. A., *see* GOLOVIN, P. V.
GERASIMOVA, A. M.,
see DOBRONRAVOV, F. N.
GERLAXHE, S. and CASIMIR, J. Sugars separation by chromatoelectrorheophoresis. (Abs.)..... 74
GERSTNER, H. G. and LOUSTEAU, L. J. Refined sugar storage. (Abs.) 351
and MEADE, G. P. Time factor in char sweet water formation. (Abs.) 45
DE GIACOMI, R. Food Directory 1959–60. (B.B.) 23
GIESEKE, H., *see* SCHNEIDER, F.
GILLETTE, E. D. Bone char and granular carbon for decolorizing 45
Sugar in evaporator condensate .. 133
GILLIS, M. B. Animal fodder. (Pat.) .. 110
GIONA, A. R. and MARIANI, E. Carbonatation juice settling rate. (Abs.) 21
GIRYAVENKO, F. I. Refined sugar packaging. (Abs.) 135
GISMONDI, G. Refining. (Abs.) 19
GLEICH, E. Limestone unloading .. 357
GLINKA, C. Beet diffuser. (Pat.) 144
GODCHAUX, L., *see* LIPPMAN, A.
GOL'DFARB, R. I. and DANILENKO, P. L. Raffinose in molasses. (Abs.).... 262
GOLDSTEIN, H., *see* LECLERC, E.
GOLOVIN, P. V. *et al.* Calcium trisaccharate formation. (Abs.)..... 290
Sucrose crystallization rate changes 224
GOLOVKOV, P. D. Diffusion losses .. 138
GOLOVNYAK, Y. D.
see KARTASHOV, A. K.
GOLUBEVA, A. D. Effect of sodium triphosphate on molasses losses .. 194
see also PERTSEL', V. M.
GONCHARENKO, A. V. Factory equipment defects. (Abs.) 225
GOODBAN, A. E. *et al.* Moisture in pressed beet pulp. (Abs.) 230
see also MORGAN, A. I. *and* STARK, J. B.
GOODWIN, R. F. Cane payment in Puerto Rico. (Abs.)..... 62
GOPAK, A. K., *see* KARTASHOV, A. K.
GORBAN', D. V. Low-grade massecuite treatment. (Abs.)..... 22
GORDIENKO, V. I., *see* BENIN, G. S.

PAGE

GORDON, J. Cane diseases. (Abs.).... 242
Cane disease resistance trials. (Abs.) 243
GORIOT, E. Continuous filter press 231
GOROKH, V. N., *see* PERTSEL', V. M.
GÓRSKI, S. and KOKELI, Z. Heat economy in the sugar industry 140
GRABSKI, A. Filter muds conveyor 193
GRAHAM, P. M. Boiler No. 15 at Central Romana. (Abs.) 287
GRAHAM, W. S. Sucrose supersaturation, viscosity and resistivity 360
and DOUWES DEKKER, L. C. G. Juice settling. (Abs.)..... 190
GRANT, E. J. and MANNING, L. L. Settling bone char. (Abs.) 45
GREBENYUK, S. M. Continuous diffuser 138
GRILLOT, G. Cane trials in Morocco 336
GRIMWOOD, G. L., *see* BROADBENT, F.
GRISHCHENKO, E. M. and TYAZHELOVA, G. F. Diffuser disinfection. (Abs.) 257
GRISHCHENKO, N. D. Beet unloading and storage. (Abs.)..... 49
GROKHOVSKII, A. A. and LAVRENYUK, V. A. Automatic digestion pipette 262
and SOROKA, A. A. Cube sugar hardness determination. (Abs.).. 321
DE GROOTE, M. and PETTINGILL, O. H. Sucrose oxyalkylation. (Pat.) .. 329
GROSSMAN, F. Molasses transportation and utilization. (Pat.)..... 53
GRUPE, H., *see* NEEB, O.
GUAGLIUMI, P. Cane insects in Venezuela. (Abs.)..... 305
GUERINEAU, C. M.
see DE ULLIVARI, R. F.
GUILBEAU, W. F., *see* MARTIN, L. F.
GULMINELLI, L. Beet molasses utilization in Italy. (Abs.)..... 75
GUPTA, B. D. Cane borer. (Abs.)
35, 121, 122, 243
GÜRAY, P. and SÜTMEN, M. Active carbon and kieselguhr treatment of clairce. (Abs.) 48
GURUSWAMY, V., *see* JENKINS, G. H.
GUSEV, E. A. Automatic boiling control 289
Sugar factory running-down time 17
see also CHEREDNIK, V. A.
GUSINSKAYA, M. S.,
see SIKIRYAVYI, A. G.
GVOZDIK, A. A. Juice heater cleaning 139

HABERÉNYI, K. *et al.* J-diffuser performance. (Abs.) 49
HAINES, C. E., *see* COMBS, G. E.
HAMAGUCHI, E., *see* KOMOTO, M.
HAMMOND, A. Mhlume sugar factory 183
HANDA, D. R., *see* SEN, S. C.
HANGYÁL, K. and RADICS, I. Betaine plant at Ercsi. (Abs.) 167
HANSON, N. S. Weed control in Hawaii 153
HART, L. R. and BANKS, J. N. Oil-fired cane locomotive. (Abs.)..... 244
HARTL, H. Thin juice softening by ion-exchange. (Abs.) 102
HASIMOTO, Y. Refinery steam accumulator. (Abs.)..... 221
HAURY, V. E. Alcohol extraction of sugar. (Pat.)..... 296
HAWAIIAN DEVELOPMENT CO. and CROWN ZELLERBACH CORP. Bagasse pulp production. (Pat.) 295
see also KNAPP, S. B.
HAYDON, D. A., *see* BENNETT, M. C.
HAYWARD, A. C., *see* DOWSON, W. J.
HEBERT, L. P. and HENDERSON, M. T. Cane varietal differences. (Abs.) 152
and MATHERNE, R. J. Cane planting date, depth and yield. (Abs.).... 7
et al. Cane harvesting time and yields. (Abs.) 336
HEGEDÜS, L. Continuous sugar melter 99
HEHRE, E. J. *et al.* Dextran production 78
HEIMKE, W. pH meters. (Abs.)..... 226
HEIN, LEHMANN & CO. A.G. Centrifugal 232
HEINS, D. Anti-corrosion paints. (Abs.) 102
HELLMAN, N. N., *see* HEHRE, E. J.
HENDERSON, M. T., *see* HEBERT, L. P.
HENGEVELD, J. F.
see ASSELBERGS, C. J.
HERRIMAN, L. E. Molasses mixtures analysis. (Abs.) 262
HERTRICH, J. Centrifugals drive and suspension. (Pat.) 296
Centrifugal water drive control.... 145
HERTZEBERG, A. M. and MOUNTFORT, C. B. Filtration optimal conditions. (Abs.) 108
HESSEL, F. A., *see* WERNER, J.
HEUZE, R., *see* EDELINE, F.
HIDI, P. and NICHOLSON, R. I. Ionic calcium determination in cane juices 9

PAGE

HILER, M. J. Soil conditioner. (Pat.) 53
HINRICHS, D. D., *see* HAWAIIAN DEVELOPMENT CO.
HIRSCHMÜLLER, H. and HÖRNING, H. Beet sucrose determination. (Abs.) 52
see also HORNING, H.
see also HÖRNING, H.
HITZEL, H. Additional sugar yield calculation. (Abs.) 357
HOFFMANN, R. Quentin molasses process. (Abs.) 354
HOFFPAUIR, C. L., *see* STANSBURY, M. F.
HOFLUND, S. and SVANBERG, O. Sugar in animal feed. (Abs.)..... 143
HOFMANN, W., *see* SCHNEIDER, F.
HOGLAN, F. A. Glutamic acid from Steffen's filtrate. (Pat.).. 111, 173, 265
HOLLOWAY, J. W., *see* LAVIN, O.
HOLLY, I. Beet analysis. (Abs.)..... 199
Beet marc content determination 326
HOLT, J. E. Cane permeability. (Abs.) 256
HONG, G. B. and VAN SCHUYLENBORGH, J. Cane foliar analysis. (Abs.) .. 120
HONGO, M. Butanol from fermented molasses. (Pat.) 329
HONIG, P. Colour determination of refinery products. (Abs.)..... 360
see also CHAPMAN, F. M.
HORAWSKI, M. Viscosity of sucrose, massecuite and molasses. (Abs.) 52
HÖRNING, H. Animal feed analysis .. 260
and HIRSCHMÜLLER, H. Sucrose in beet. (Abs.) 107
see also HIRSCHMÜLLER, H.
HORSLEY, M., *see* NICHOLSON, R. I.
HOUGH, L., *see* ANDREWS, P.
HSIAO, Y. Y., *see* LI, H. W.
HSIEH, P. T. *et al.* Levulose from sucrose. (Abs.) 75
HSU, W. C. Cane culture in Taiwan 306
Cane irrigation in Taiwan. (Abs.) 276
Tractor farming in Taiwan. (Abs.) 122
HUGOT, E. Handbook of Cane Sugar Engineering. (B.B.)..... 105
HULL, R. Beet virus yellows in U.K. 88
HURST, R. W. Rubber in sugar factory 253
HUTSON, J. M., *see* CHAPMAN, F. M.
HUTZL, L. Chile sugar industry. (Abs.) 50

ILAGA, M. T. *et al.* Effect of sulphurous and phosphoric acids on cane arrowing. (Abs.) 211
– Planting first year cane seedlings. (Abs.) 122
ILLINOIS WATER TREATMENT CO.
see REENTS, A. C.
INAGAKI, K. Automatic magma density control. (Abs.) 221
INCE, A. N. C. Petroleum products in sugar industry. (Abs.)..... 287
INTERNATIONAL HARVESTER CO., *see* ORELIND, J. R. *and* VAN BUSKIRK, E. M.
INTERNATIONAL MINERALS & CHEMICAL CORP. Sugar from beet molasses 77
see also GILLIS, M. B. *and* HOGLAN, F. A.
INTERNATIONAL PULP PRODUCTS INC., *see* CUSI D. S.
INVENTA A.G. FÜR FORSCHUNG UND PATENTVERWENDUNG. Clarification. (Pat.) 231
IRVING, H. F. Centrifugal. (Pat.) 53
ISHIWATA, A., *see* OGAWA, T.
IVANOV, S. Z. Sucrose destruction in aqueous solutions. (Abs.) 261
IVANOVA, L. K., *see* KARTASHOV, A. K.
IWASHINA, S. Effect of adsorbed metals on ion-exchange resin regeneration 18
Ion exchange in refining. (Abs.) .. 134
Ion exchange resin surface structure 221
IYENGAR, M. R. S., *see* VASUDEVA, R. S.
IZRAILEVITCH, L. S. Beet washer. (Abs.) 104

JACKSON, J. T., *see* MARTIN, L. F.
JAKUBOWSKI, J., *see* SWEDROWSKI, A.
JALKANEN, M. J. Pulp removal from tower diffusers. (Pat.)..... 110
JÁNOSFY, K. Muddy juice circulation to carbonatation. (Abs.)..... 166
Sugar whiteness determination .. 326
JAOUNI, T., *see* GOODBAN, A. E.
JAROS, J., *see* DRACHOVSKÁ, M.
JARZECKI, A., *see* KOPERA, K. *and* WALERIANCZYK, E.
JARZECKI, S., *see* SZADKOWSKI, J.
JEBAVY, J., *see* PAVLAS, P.
JENKINS, G. H. Cane mill roller speed 256
and GURUSWAMY, V. Molasses exhaustibility. (Abs.) 17
see also HUGOT, E.

INDEX

PAGE

JOHNSON, W. and LOHNING, F. M. Electric drives. (Abs.) 254
JONGENEEL, A. M. Beet harvester .. 110
JORN, G. L., *see* DOVE, J. A.
JÖRN, K., *see* SCHNEIDER, F.
JOSHI, K. A. and BHARGAVA, O. P. Dorr clarification and Oliver filtration. (Abs.) 351
JUANG, P. Y. Cane flowering. (Abs.) 62, 276
JUNG, E. V. Beet pulp press. (Pat.) 112
JUNG, H. Pressure filter. (Pat.) 294

KAETHER, W. Beet diffuser. (Pat.) .. 201
and MUSHACK, F. Beet diffuser .. 201
KAMENETSKII, V. A., *see* MIKULA, G. A.
KAMINSKAYA, A. B., *see* MALKOV, A. M.
KAMODA, M. and YAMANE, T. Sugar crystal conglomerates. (Abs.).. 228, 229
– Sucrose crystal defective structure 155
KAMPF, H. Pakistan Sugar Commission recommendations 318
KAPOOR, B. D., *see* SHUKLA, J. P.
KAR, K. Red rot pathogen. (Abs.).... 35
KARATNICKI, A. Beet storage. (Abs.) 103
KARCHEVSKII, I. S. Evaporator cleaning 225
KARTASHOV, A. K. and GOLOVNYAK, Y. D. Carbonatation time cycle and GOPAK, A. K. Effect of water pollution on diffusion. (Abs.).... 224
et al. BMA defeco-saturation. (Abs.) 71
– Carbonatation. (Abs.) 353
– Carbonatation optimum pH.. 355
– Diffusion water pH. (Abs.)..... 355
– Glutamic acid in molasses. (Abs.) 167
– Polyelectrolytes in juice settling 359
KATS, V. M. and KHVALKOVSKII, T. P. Molasses analysis. (Abs.) 103
KAWAOKA, J., *see* OGAWA, T.
KAZIMIROV, R. K., *see* SHAKIN, A. N.
KEC, V., *see* DRACHOVSKÁ, M.
KEHR, W. Materials testing. (Abs.).. 358
KELLER, A. G. Evaporator explosions 134
KELLER, H. W., *see* REENTS, A. C.
KELLY, F. H. C. Sucrose crystallization 222
KERR, H. W. Cane mill analysis. (Abs.) 327
KHANNA, M. L. *et al.* Solar energy concentrators. (Abs.)..... 261
KHELEMSKII, M. Z. Beet storage (Abs.) 100
et al. Raffinose and kestose in stored beet. (Abs.) 257
KHU, J. B. Combustion catalysts .. 358
KHVALKOVSKII, T. P. Decolourizing molasses. (Abs.) 289
see also KATS, V. M. 52
KICHIGIN, N. M., *see* NOVIKOV, V. A.
KINDSCHER, W. Anti-corrosion paint 290
KLING, G. Beet tare house at Haldensleben. (Abs.)..... 199
KNAPP, S. B. and WETHERN, J. D. Bagasse pulping. (Pat.) 329
KNIGHT, J. and ALLEN, C. H. Invert sugar in refined sugar..... 344
KNOWLES, R. E., *see* MORGAN, A. I.
KOHLER, G. O., *see* MORGAN, A. I
KOHN, R. and VASÁTKO, J. Carbonatation. (Abs.) 354
et al. Progressive defecation with juice return. (Abs.)..... 324
see also TIBENSKY, V. and VASÁTKO, J.
KOKELI, Z., *see* GÓRSKI, S.
KOKHAN, M. A. and SIMAKOVA, E. T. Sugar in final molasses. (Abs.) 72
KOLESNIK, B. G., *see* CHEREDNIK, V. A.
KOMEN, J. P. Massecuite temperature control. (Abs.)..... 254
KOMORI, I., *see* OGAWA, T.
KOMORI, S. *et al.* Sucrose ester preparation. (Abs.) 172
KOMOTO, M. and FUJII, S. Ultra-violet radiation effect on invert syrup 200
et al. Beet composition in Japan 200
– Raw sugar and refinery molasses analysis. (Abs.)..... 164
KONISHI, H. Buckau-Wolf diffuser .. 196
KOPERA, K. *et al.* Clarification at Witaszyce factory. (Abs.) 21
see also WALERIANCZYK, E.
KORF, D., *see* BOELHOUWER, C.
KOT, Y. D. Diffusion in a split battery 138
see also KOZHUSHKO, A. T. *and* VAISMAN, M. L.
KOTACZOWSKI, S. and BIERWAGEN, H. Waste water economy in Poland 324
KOVAL', E. T. and ZAGORUL'KO, A. Y. Rotary diffuser theory. (Abs.).. 356
et al. Comparative evaluation of diffusers. (Abs.) 356
– Effect of raw juice flow on extraction. (Abs.) 356
– Juice percolation through cossette layer. (Abs.) 355

PAGE

KOWALCZYK, T. Continuous centrifugals. (Abs.) 48
Krauss-Maffei and Alfa-Laval centrifugals. (Abs.) 225
KOWALEWSKI, Z. Polish Sugar Technologists' Association. (B.B.)..... 140
KOZHUSHKO, A. T. and KOT, Y. D. Air-cooling during crystallization 101
KOZIMA, H., *see* SIMIZU, T.
KRAMER, D. Waste water purification 165
KRASNYANSKII, K. V. Vacuum aspirators. (Abs.) 291
KRETININ, F. S., *see* MALKOV, A. M.
KRISHNAMURTI, B. G. Formalin as juice preservative. (Abs.) 191
KRISTY, N. O. Water in pump stuffing boxes. (Abs.)..... 190
KROEZE, H. K., *see* ASSELBERGS, C. J.
KROLL, O. E. Beet harvester. (Pat.) 296
KRSKA, F., *see* STAMBERG, J.
KRÜGER, W. Lime salts control. (Abs.) 141
KRUSE, N. F. Molasses feed. (Pat.) .. 329
KULOOR, N. R., *see* THAMPY, R. T.
KUNZ, E. C. Animal fodder. (Pat.) .. 111
KURBATOVA, V. S. Bacterial losses in diffuser. (Abs.)..... 21
KURZEWSKI, J. Massecuite purity .. 138
KVAPIL, E., *see* PAVLAS, P.
KYOWA HAKKO KOGYO K. K. Citric acid production. (Pat.) 264
see also SAKAGUCHI, K.

LABIOSA, R. Rubber belt intermediate carriers. (Abs.)..... 320
LACSON, M. V.
see TABABAYOYONG, F. T.
LACHMANN, A. Brown sugar. (Pat.).. 111
LAL, K. N. and TANDON, J. N. Cane growth and juice properties .. 62
LAMBERTON, J. A. and REDCLIFFE, A. H. Polymeric aldehydes in cane wax. (Abs.)..... 109
DE LAMOTTE, A., *see* LECLERC, E.
LAMUSSE, J. P. and RANDABEL, M. Sugar washing in centrifugals 288
see also DUPONT DE R. DE ST. ANTOINE, J.
LAN, C. H. Lubricating oil reclamation 134
A.B. LANDSVERK., *see* JUNG, E. V.
LAUCKE, H. Sugar technology nomenclature. (Abs.)..... 226
LAVIN, O. and HOLLOWAY, J. W. D-arabitol production. (Pat.).. 265
LAVRENYUK, V. A.,
see GROKHOVSKII A. A.
LECLERC, E. *et al.* Refinery equipment corrosion. (Abs.) 226
LEE, C. A. Syrup and juice filtration in Taiwan. (Abs.)..... 45
LEE, S. Cane seed germination. (Abs.) 276
and LOO, Y. S. Cane germination tests. (Abs.)..... 60
LEELÓSSY, K. and VUKOV, K. J-diffuser 290
LEFFINGWELL, R. J. Cane transportation in Puerto Rico. (Abs.)..... 152
LE GUEN, F., *see* DUPONT DE R. DE ST. ANTOINE, J.
LEIBIG, W. Punched-card system .. 47
LEIBMAN, I. S., *see* BRAGINSKAYA, B. M.
LEKAWSKI, J. *et al.* Kiangmung sugar combine. (Abs.) 321
LEMAITRE, A. Carbonatation juice filtrability. (Abs.) 260
see also DUBOURG, J.
LEPOUTRE, R. Centrifugals automatic operation. (Abs.)..... 99
LES'KIV, T. M. Hydrocyclones in the beet sugar industry. (Abs.) 71
LESZKO, M. Sugar juice electrodialysis 324
LEU, L. S. and BAU, Y. S. Cane mosaic resistance trials. (Abs.) 122
LEU, S. L. and BAU, Y. S. Cane mosaic resistance trials. (Abs.) 62
LEWIS, J. A. Evaporator cleaning acid inhibitor. (Abs.)..... 256
LEWIS, J. D., *see* SWAN, J. A.
LI, H. W. *et al.* Cane basic chromosome number. (Abs.)..... 336
LICENCIA TALÁLMÁNYOKAT ERTÉKESITÖ VÁLLALAT. Milk-of-lime purification. (Pat.) 294
LIMA G., M. Ion exchange treatment of cane juice. (Abs.)..... 100
LIMPRICH, H. Waste water purification in Germany. (Abs.)..... 226
Water pollution in Braunschweig 258
LIN, R. C., *see* CHANG, H.
LIPETS, A. A., *see* KOVAL', E. T.
LIPPMAN, A. and GODCHAUX, L. Liquid sugar production. (Pat.)..... 264
LISKAK, K., *see* PAVLAS, P.
LISY, O., *see* BÖHM, O. *and* RAIS, K.

PAGE

LITVAK, I. M. Carbonatation. (Abs.).. 290
and BARABANOV, M. I. Pectin adhesive. (Abs.) 22
LIU, M. C., *see* CHANG, H.
LIU, Y. T. and BAH, H. S. Submerged citric acid fermentation. (Abs.) 263
LÖBL, K. Evaporator design and thick juice purity. (Abs.)..... 258
LOEBENSTEIN, W. V. Bone char decolorization theory. (Abs.) 73
see also SCHWER, F. W.
LOHNING, F. M., *see* JOHNSON, W.
LOILIER, M., *see* DEVILLERS, P.
LONG, W. H. *et al.* Cane borer control 274, 306
– Fire-ant control, effect on borers 61
LOO, Y. S., *see* LEE, S.
LORD, G. and DAVIS, C. W. Estimating cane constituents 245
LORENZ, S. Bacterial control. (Abs.).. 101
Microbiological research. (Abs.).... 107
LORENZO-LUACES, E. Juice fermentation control. (Abs.) 287
LOSERTH, R. pH control in 'Sepa' process. (Abs.)..... 263
LOUSTEAU, L. J., *see* GERSTNER, H. G.
LÖWY, K. Aconitic acid as scale inhibitor. (Abs.) 45
Bone char lye adsorption. (Abs.).. 73
LOZINSKII, R. B., *see* ZHURAVLEVA, Z. D.
LUCAS, S. W. Sugar thrower. (Pat.) 77, 145
LUDECKE, H. and NITZSCHE, M. Beet sodium determination. (Abs.) .. 47
LUKE, D. K. "Fas-Flo" filter. (Abs.) 350, 351
LUSKAC, J., *see* PAVLAS, P.
DE LUZURIAGA, E. R. Bulk handling in Australia. (Abs.)..... 289
LYONS, E. S. Precipitation and temperature effect on cane yield .. 120
LYSYANSKII, E. B. Sugar and refinery magma moisture determination 327

MCCULLUM, E. V. and RIDER, A. A. Glutamine from beet juice. (Pat.) 201
MCCREADY, R. M., *see* GOODBAN, A. E., MORGAN, A. I. *and* STARK, J. B.
MCDONALD, E. J. Liquid sugar analysis 73
MACDONALD, J. C. British beet sugar industry. (Abs.) 19
MAPRAZO, C. M. San Carlos factory, Philippines. (Abs.)..... 320
MAEDA, T., *see* KOMOTO, M.
MAGEE, L. A. *et al.* Effect of 'Dalapon' on mhoon soil microflora. (Abs.) 306
MAHONEY, L. E. and REED, W. L. Bulk handling of granulated sugar 351
MAIER, L., *see* PREY, V.
MAKAREVICH, L. F. *et al.* Molasses sugar recovery. (Abs.)..... 257
MAKSIMOVA, N. A.
see KARTASHOV, A. K.
MAKSIMUK, P. S. Relieving molasses pump gears. (Abs.) 22
MALAGUZZI-VALERI, G. Evaporation and boiling. (Abs.) 20
MALANCHUK, M., *see* BOWMAN, R. S.
MALKOV, A. M. Molasses solution colour 141
et al. Molasses purification. (Abs.) 75
MANNING, L. L., *see* GRANT, E. J.
MANOV, E. Beet mechanization. (B.B.) 259
MANTOVANI, G. Ion-exchange resins 103
Sugar characteristics and analytical control. (Abs.) 24
MANTRI, J. V., *see* PAGALKAR, D. G.
MARASSI, A. Cane cultivation in Spain 152
MARIANI, E., *see* FUMASONI, S. *and* GIONA, A. R.
MARSHALL, T. V. Water-soil relations 259
MARTIN, L. F. *et al.* Sugar processing research. (Abs.) 287
MARTINEZ, C. Automatic cane carrier control. (Abs.)..... 320
MARTORELL, L. F. Cane pest control in Puerto Rico. (Abs.)..... 89
MASSEY-FERGUSON (AUSTRALIA) LTD., *see* DOUGLAS, J. E.
MASSEY-FERGUSON (GREAT BRITAIN) LTD. Beet topper feeler wheels 231
MASSEY - HARRIS - FERGUSON (SALES) LTD. Beet topper. (Pat.) 76
MATHEIS, H. and BERGER, P. Beet unloading and storage. (Abs.) 165
MATHERNE, R. J., *see* HEBERT, L. P.
MATSUDA, Y. Iron in refinery products 200
MATSUO, Y. and NANBA, A. Reducing sugars in molasses. (Abs.)..... 360
MATTHEWS, A. A. Wireworm insecticide 35
MAURA, G., *see* FUMASONI, S.
MAY, A. Corrosion prevention. (Abs.) . 191
Molasses as animal fodder. (Abs.) 109
MAZURA, J., *see* BURES, J.

INDEX

PAGE

MEAD, K. J. and NOONAN, J. B. Fodder cane in Australia. (Abs.) 35
MEADE, G. P., *see* GERSTNER, H. G.
MEKHDA, V. P. Natural gas-burning lime kiln. (Abs.) 136
see also MAKAREVICH, L. F.
MELSTAD, J. L., *see* ANDERSON, A. W.
MENCL, Z. *et al.* Ion exchange plant for syrup decolorization. (Abs.) 222
MENDEZ-ROIG, F. *et al.* Cane variety trials in Puerto Rico. (Abs.) 89
MENNING, A. E. Sucrose ester production. (Abs.) 263
METCALFE, J. E. Borer control in Barbados. (Abs.) 5
MEYERS, F. I. Gilmore Louisiana-Florida Sugar Manual. (B.B.) .. 169
MIKULA, G. A. and KAMENETSKII, V. A. Diffuser modification. (Abs.) 195
MINTZ, S. W. Worker in the Cane. ... 292
MIRCEV, A. and FRIML, M. Sucrose crystallization rates. (Abs.) 108
MITRA, A. K. and PERLIN, A. S. Sucrose reaction with glycol-cleaving oxidants. (Abs.) 360
MITRA, D. N. Viscose pulps from bagasse. (Abs.) 109
MITROFANOV, B. P. Descending-film evaporator. (Abs.) 291
MIYAHARA, A., *see* SHIMIZU, H.
MLYNÁR, J. Canton sugar factory .. 133
MOCHIZUKI, S. Pan feed control. (Abs.) 192
MOEBES, E. Juice ion exchange demineralization. (Abs.) 257
MOLCHADSKII, M. T., *see* BEAGINSKAYA, B. M. *and* VODOLAZSKAYA, L. A.
MOLENDA, J., *see* LEKAWSKI, J.
MÖLLER, C. M.,
see CHRISTOFFERSON, H. J.
MONSALUD, M. R. Bagasse paper manufacture. (Abs.) 328
MORGAN, A. I. *et al.* Beet processing laboratory. (Abs.) 293
– Carbonatation model plant. (Abs.) 136
MORGAN, J. D. Bagasse board manufacture. (Pat.) 77
MOROZ, R. Scale cleaning. (Abs.) .. 350
MORRISH, S. A. Beet pulp pressing .. 291
MORWAY, A. J. and WADDEY, W. E. Lubricants containing sugar fatty acid esters. (Pat.) 329
MOTTARD, F. L. Reducing sugars degradation. (Abs.) 326
MOUNTFORT, C. B.,
see HERTZEBERG, A. M.
MRKVICKOVÁ, M. Molasses crystallization. (Abs.) 200
MÜHLFFORTE, H. Sugar extraction from beet tails. (Abs.) 104
MUKHERJEE, S., *see* BOSE, S.
MUNGOMERY, R. W. "Lindane" spraying *vs.* BHC dust. (Abs.) 212
MURRAY, S., *see* GAD, A. M.
MURRY, C. R. Cane milling tests .. 255
Cane-mill feed pressure 346
MUSHACK, F., *see* KAETHER, W.

NAFFA, P. and FRÉGÉ, C. Sucrose solution viscosity. (Abs.) 107
NAGAHARA, T. and TSUTSUMI, C. Determination of sugar moisture 199, 360
NAIL, J. R. *et al.* Pre-emergence herbicides. (Abs.) 120
NANBA, A., *see* MATSUO, Y.
NASU, O., *see* SHIMIZU, H.
NATIONAL RESEARCH DEVELOPMENT COUNCIL. Beet thinner. (Pat.).. 361
NATIONAL SUGAR REFINING CO., *see* BAIRD, R. J. *and* LIPPMAN, A.
NAVEZ, P., *see* LECLERC, E.
NEBE, E. Moisture in beet pulp. (Abs.) 106
NECHISTIK, M. M. Electromagnetic treatment of juices. (Abs.) 101
NEEB, O. and GRUPE, H. Sugar losses in stored beet. (Abs.) 353
NEMECEK, J., *see* BURES, J.
NEUMANN, H. Beet molasses ion exchange treatment. (Abs.) 47
NEWSOM, L. D. Cane borer control with "Endrin". (Abs.) 7
NEWTON, W. Brookfield Distribution Terminal, Chicago. (Abs.) 351
NICHOLSON, R. I. and HORSLEY, M. Starch and dextran determination 200
see also HIDI, P.
NICKLIN, J. H. and BEALE, R. F. Pan impellers. (Abs.) 255
NIKITOVIC, M. Yugoslavian sugar industry. (Abs.) 354
NIKOLAEV, V. A., *see* SIKIRYAVYI, A. G.
NITSCHE, M., *see* LÜDECKE, H.
NITSCHKE Z., pH meters. (Abs.) 50

PAGE

NIZOVKIN, V. K. and EMEL'YANOVA, I. Z. Reducing sugars determination. (Abs.) 230
EL-NOCKRASHY, A. S., *see* GAD, A. M.
NOLAN, W. J. Bagasse pith separation 110
NOONAN, J. B., *see* MEAD, K. J.
NORDFELDT, S. Enriching "Betfor" with protein. (Abs.) 109
NOTO LA DIEGA, G. Glutamine and glutamic acid determination .. 24
NOVIKOV, V. A. and KICHIGIN, N. M. Beet unloading and piling. (Abs.) 20
NOWAKOWSKI, B. Beet plasmolysis 104
NOWAKOWSKI, J. Turbine steam consumption. (Abs.) 104
NUNOKO, N. Raffinose in molasses 200
NYÁRY, T. Forced-flow evaporator 324

OGAWA, T. *et al.* Glutamic acid from Steffen's filtrate. (Pat.) 53
OHKI, K., *see* ULRICH, A.
OIKAWA, S., *see* SHIMIZU, H.
OKAHARA, M., *see* KOMORI, S.
OKAMOTO, T., *see* FURUTERA, T.
OKITA, H. Heat transfer in pan boiling 192
OLDFIELD, J. F. T., *see* CARRUTHERS, A.
OLSEN, A. J. C. Bakers' yeast manufacture 213, 247
OLSON, R. F. Beet sugar odour. (Abs.) 142
see also FINKNER, R. F.
OMAN, E. Cane milling. (Pat.) 25
ONDA, F., *see* YAMANE, T.
OPLATKA, G. Beet diffusion. (Abs.) .. 193
D'ORAZI, G. Beet juice purification 19
ORELIND, J. R. and CLARK, E. M. Beet harvester clod crusher. (Pat.).... 329
OSVALD, R. Carbonatation muds examination. (Abs.) 198
Effect of invert sugar on juice. (Abs.) 166
AB. OVERUMS BRUK. Beet harvester 295
Beet loader. (Pat.) 232
see also DANIELSSON, T.
OWEN, W. L. Bacterial infection of refined sugar. (Abs.) 18
Filter cake and bagasse as fertilizers 89
Filter muds composting. (Abs.) .. 306

PADALKAR, V. S., *see* PAGALKAR, D. G.
PAGALKAR, D. G. *et al.* Filter press working. (Abs.) 352
PALESTRO, L. Beet unloading and storage. (Abs.) 20
PANJE, R. R. and SRINIVASAN, K. *Saccharum spontaneum* flowering 35, 182
PAPARELLE, G. A. Deliming juice with ion exchange. (Abs.) 19
PARANPAN, V. G. Pol Java ratio and chemical control. (Abs.)..... 327
PARASHAR, D. R. Processing drought-affected cane. (Abs.) 320
PARATELLA, A. Clarification. (Abs.) .. 168
Filtration *vs.* centrifugal decanting 196
PAREKH, K. H. Fondant seeding. (Abs.) 351
PARISH, D. H. and FEILLAFÉ, S. M. Urea *vs.* sulphate of ammonia .. 276, 336
PARKER, W. H. Potassium imidodisulphonate in white sugar 313, 339
PARKHOMETS, A. P. Refinery water scheme. (Abs.) 253
PASETTI, A. Pol losses in beet. (Abs.) 168
White sugar quality testing. (Abs.) 358
PATHAK, S. R. and SRINIVASAN, V. R. Bagasse analysis. (Abs.)..... 328
PATT, W. Feeding sugar tablets to wrappers. (Pat.) 265
PATTERSON, R. S. Vacuum pans. (Abs.) 350
PAULIK, I. Aluminium alloys in the sugar industry. (Abs.)..... 321
and TISZAVÁRY, O. Corrosion.(Abs.) 167
PAUSE, K. Charging centrifugals. (Abs.) 256
PAVLAS, P. *et al.* Battery diffuser disinfection. (Abs.) 47
PEISKER, K. Beet re- and unloading 225
PELETMINSKII, V. N. Beet flume performance. (Abs.) 291
Waste water settling tanks. (Abs.) 193
PEL'TS, M. L., *see* KHELEMSKII, M. Z.
PENNINGTON, N. L. Bone char laboratory column tests. (Abs.)..... 73
PERK, C. G. M. Cane unit load calculation. (Abs.) 191
Circulation pumps for carbonatation and sulphitation. (Abs.) 351
Entrainment separators. (Abs.).. 17, 351
Massecuite yield calculations. (Abs.) 191
Steam consumption in sugar remelting. (Abs.) 17
Sulphitation plant at Umfolozi .. 17
Vapour bleeding at S.A.I.S. (Abs.) 132
PERKINS, L. New combine harvester in U.S. (Abs.) 84

PERLIN, A. S., *see* MITRA, A. K.
PERTSEL', V. M. and GOROKH, V. N. Condensate removal. (Abs.).... 168
et al. Effect of sodium phosphate on scale and boiling. (Abs.) 224
see also VAISMAN, M. L.
PETIT, G. Continuous weighers. (Abs.) 256
PETRI, P. H. Fluidized bed sugar cooler 351
PETROLITE CORPORATION,
see DE GROOTE, M.
PETTINGILL, O. H., *see* DE GROOTE, M.
PHANSALKAR, S. L. and RAMAIAH, N. A. Godown construction. (Abs.).... 134
PHILIPPU, J. Reducing sugars determination. (Abs.) 260
PHIPPS, O. H. Waste water treatment 323
PIASECKI, K. and POGRANICZNY, K. Disinfectant dosing device. (Abs.) 193
PIERONI, G. Automation. (Abs.) 168
Beet diffusion. (Abs.)..... 20
PIGNALOSA, F., *see* VITON, A.
POGRANICZNY, K., *see* PIASECKI, K.
POHL, G. Burning of lime. (Abs.).... 196
POHLE, G. Beet knives and holders .. 258
POMARANSKI, A. Heat economy in Pomeranian factories. (Abs.).... 136
POPOV, S. Diffusion juice ion exchange treatment. (Abs.)..... 193
POPOV, V. D. and BAZHAL, I. G. Massecuite crystal content. (Abs.).... 141
PORQUEZ, P. H. and TABAYOYONG, F. T. *Trichogramma* breeding. (Abs.) 34
PÖTKE, E. Drying beet leaves. (Abs.) 327
POWELL, D. B., *see* ANDREWS, P.
POWELL, E. L. Bagasse pulp production 232
POWERS, H. E. C. Sugar crystallization in thin films..... 307
PRASAD, S. G. and AGARWAL, K. N. Sucrose in filter-cake, effect on clarification factor. (Abs.)..... 133
see also AGARWAL, K. N.
PREY, V. Electrophoresis and chromatography. (Abs.)..... 142
et al. Amino acids in beet juice 52
– Invert, lactic acid and amino acids determination. (Abs.).... 170
– Lactic acid in sugar juices. (Abs.) 106
– Nitrogen content of white sugar and yellowing. (Abs.)..... 326
see also SZABOLCS, O.
PRICE, S. Cane apomixis. (Abs.)..... 153
PRILUTSKII, I. I. Corrosion in rotary diffusers. (Abs.) 136
Diffuser conveyor speeds. (Abs.) .. 168
see also GABOVICH, M. S.
DE PROSKOWETZ, W. G. "Last Evaporator" system 8

RADERMACHER, G. Burnt lime reactivity. (Abs.) 198
RADICS, I., *see* HANGYÁL, K.
RAFFINERIE TIRLEMONTOISE. Sugar slab moulds. (Pat.) 264
RAGNAUTH, J. M., *see* BENNETT, M. C.
RAIS, K. *et al.* Beet tail processing .. 166
RAJA, R. P., *see* RANGANATHAN, V.
RAMAIAH, N. A. and VISHNU, –. Salts effect on sucrose and levulose polarization. (Abs.)..... 74
– Sucrose- and levulose-salt complexes. (Abs.) 24
see also PHANSALKAR, S. L.
RAMCHANDER, G. Boiler feed water treatment. (Abs.)..... 134
RAMIREZ, R. "Separan AP-30" in clarification. (Abs.)..... 190
RANDABEL, M., *see* LAMUSSE, J. P.
RANGANATHAN, V. and RAJA, R. P. Cane vegetative growth index 120
RAO, N. V. M., *see* RAO, P. V. S.
RAO, P. V. S. and RAO, N. V. M. Gur keeping qualities. (Abs.)..... 163
– Jaggery storage and transport 134
RASMUSSON, J. Beet polyploids. (Abs.) 35
RAYMOND, C. B. Cane payment in Philippines. (Abs.) 327
REDCLIFFE, A. H.
see LAMBERTON, J. A.
REED, W. L., *see* MAHONEY, L. E.
REENTS, A. C. and KELLER, H. W. Molasses demineralization. (Pat.) 295
REINEFELD, E., *see* SCHNEIDER, F.
REUTER, E. R., *see* STOLL, W. W.
RICH, J. E. A., *see* WITHERS, R. M. J.
RIDER, A. A., *see* MCCOLLUM, E. V.
RIEGER, C. J. and CARPENTER, F. G. Light scattering in sugar solutions 142
ROBENIOL, M. Soil potassium fixation in Philippines. (Abs.)..... 122
see also TABAYOYONG, F. T.

INDEX

PAGE

ROBERTS, E. J., *see* MARTIN, L. F.
ROBERTSON, G. L., *see* BROWN, P. B.
ROCHE, M. Calcium oxalate solubility in sugar solutions. (Abs.) 198
RODRÍGUEZ B., V. *et al.* Pilot-plant rum studies in Puerto Rico. (Abs.) 328
RODRIGUEZ C., J., *see* DRAUGHON, D. A.
ROELEVELD, G. R. Cane milling efficiency. (Abs.) 289
ROHM & HAAS CO. Molasses ion exchange treatment. (Pat.) 294
see also ASSALINI, G.
ROHRIO, P. E. Cane borer effect on losses. (Abs.) 256
ROJAS, L. C. San Cristóbal clarifier 287
ROLLINS, E. C. Beet harvester and cleaner. (Pat.) 296
Beet topper. (Pat.) 145
ROOTAVE, H. M., *see* DEITZ, V. R.
ROPA, C., *see* ZELBA, B.
RÖSTEL, H. J. and WÖHLERT, W. Beet leaves as fodder. (Abs.) 328
ROSTRIPENKO, I. A., *see* PERTSEL', V. M.
ROTH, H. E. "Simazine" in weed control 207
ROULET, M., *see* SCHOCH, W.
RUBIO B., A. "Alrubar" clarification process. (Abs.) 99
RUTH, J. P. Beet diffuser. (Pat.) 110
RUTTLOFF, H., *see* TÄUFEL, K.
RUZICKA, M., *see* BURES, J.
RYCHETSKY, L. Equipment for automation. (Abs.) 50

SAEYS, H. W., *see* ASSELBERGS, C. J.
SAKAGUCHI, K. *et al.* *Allo-iso*-citric acid production. (Pat.) 361
SAKAI, S. and SIMIZU, T. Raw sugar colour analysis. (Abs.) 164
see also SHIMIZU, T.
SAMUEL, T., *see* LECLERC, E.
SAMUELS, G. Effect of cane age on leaf nutrient content. (Abs.) 181
et al. Cane age and leaf nutrient content. (Abs.) 274
– Cane sucrose content. (Abs.) .. 274
SANDERA, K., *see* DRACHOVSKÁ, M.
SANDERS, H. A. S., *see* GEORGE SCOTT & SON (LONDON) LTD.
SANDZAM, J. G., *see* FRIED, J. H.
SANTIAGO, J. M. Cane mill at Villanueva 132
"Fas-Flo" filters at Villanueva .. 190
STO. DOMINGO, J. P. A-molasses vs. syrup graining. (Abs.) 100
Philippines factory equipment performances. (Abs.) 320
SANTOS, O., *see* VILLAREAL, E. P.
SAPLALA, V. L. Cane white grub control 212
SARANIN, A. P., *see* WIGHTMAN, G. W.
SASTRY, P. V. S. Low-grade massecuite treatment. (Abs.) 352
SAURAKU SHUZO K. K., *see* HONGO, M.
SAVOIE, C. C. and VRABLIK, E. R. "Elmcobelt" filter. (Abs.) 223
SOC. DES RAFFINERIES ET SUCRERIES SAY. Centrifugal. (Pat.) .. 76, 231, 295
SÁZAVSKY, V. Heat from hot condensate. (Abs.) 139
SCARAMUZZA, L. C. Cane borer control 275
SCHACHTEN, G., *see* EMMERICH, A.
SCHERER, W. Fully-automatic centrifugals. (Abs.) 288
SCHIWECK, H. Assalini-B molasses desugaring process. (Abs.) 353
Molasses de-sugaring 102
see also WEIDENHAGEN, R.
SCHMIDT, F. L.,
see HAWAIIAN DEVELOPMENT CO.
SCHMIDT, L., *see* CÍHAL, K.
SCHMIDT, L. W. Beet harvester. (Pat.) 265
SCHNEIDER, F. and EMMERICH, A. Paper chromatographic determination of sugars. (Abs.) 74
et al. Evaporator corrosion. (Abs.) 71
– Ion exchange separation of beet molasses constituents. (Abs.) 229
– Sucrose solution rates in electrolytes. (Abs.) 229
SCHOCH, W. and ROULET, M. Sucrose inversion time. (Abs.) 74
SCHWARTZ, W. River pollution with waste water. (Abs.) 357
SCHWER, F. W. and SMALL, S. P. Crystallizer time-temperature relationships. (Abs.) 350
et al. Bone char-"Synthad" mixture, controlled decarbonizing .. 45
SCHWIETER, A. Drum dryer improvements. (Abs.) 357
GEORGE SCOTT & SON (LONDON) LTD. *et al.* Molasses drying. (Pat.) 77

PAGE

SEIFFERT, K. Heat insulation in diffuser and dryer. (Abs.) 21
SELYATITSKII, V. A. J-IV diffuser .. 257
SEN, S. C. Cane juice sampling needle for maturity testing 179
and HANDA, D. R. Cane recovery forecasting in Eastern U.P. .. 211
SENTI, F. R., *see* HEHRE, E. J.
SEPITKA, A. Low-grade massecuite crystallization nomogram. (Abs.) 50
SERNA, S., F. Vacuum pans. (Abs.) .. 100
SHAKIN, A. N. *et al.* Molasses saccharate process. (Abs.) 103
SHANG, K. C., *see* LI, H. W.
SHANN, D. S. Cane mill power consumption. (Abs.) 255
see also CRAWFORD, W. R.
SHAPIRO, L. I. Beet pulp drying. (Abs.) 225
Two-stage battery diffusion. (Abs.) 48
SHAPRAN, V. Z. BMA conical basket centrifugal. (Abs.) 46
Chambon plant for sugar tableting 223
SHAW, H. R. Sugar industry in Dominican Republic. (Abs.) 18
SHEFFIELD, F. M. L. Ratoon stunting disease. (Abs.) 90
SHEMYAKIN, P. N. Beet tare determination. (Abs.) 357
SHIH, C. Y., *see* CHANG, H.
SHIH, T. S., *see* HSIEH, P. T.
SHIMIZU, H. *et al.* Beet juice ion exchange treatment. (Pat.) 145
SHIMIZU, T. and SAKAI, S. Amino acids reaction with reducing sugars 164
SHINSUGI, E., *see* KOMORI, S.
SHORE, M., *see* CARRUTHERS, A.
SHRIVASTAVA, A. N., *see* BOSE, S.
SHTEPAN, G. V. Battery diffuser disinfection. (Abs.) 224
SHU, Z. H., *see* CHEN, W.
SHUKLA, J. P. and KAPOOR, B. D. Yeast from molasses. (Abs.) 172
SICHEVOI, P. S. Beet slicing. (Abs.) .. 167
SIKIRYAVYI, A. G. *et al.* Molasses sugar recovery. (Abs.) 257
SILIN, P. M. Beet diffusion nomogram 20
SIMAKOVA, E. T., *see* KOKHAN, M. A.
SIMCO INC., *see* HAURY, V. E.
SIMIZU, T. and KOZIMA, H. Pine coal steam activation. (Abs.) 164
see also SAKAI, S.
SING, P. H., *see* BATENGA, D. E.
SINGH, H., *see* SINGH, M. M.
SINGH, M. M. and SINGH, H. Cane splitting. (Abs.) 275
SINGLETARY, C. B., *see* BROWN P. B.
SKALSKI, K. Carbonatation muds transporting. (Abs.) 225
Waste water treatment in Poland 136
SINGLETARY, C. B., *see* BROWN, P. B. pollination. (Abs.) 122
SKINNER, J. C. Controlled cane pollination. (Abs.) 122
SKINNER, S. O. and FRESHWATER, I. T. Rotary cane slasher. (Abs.) 305
SKORBILIN, S. F. Defecation lime consumption. (Abs.) 195
SLAVIC, L. BMA defeco-saturation .. 324
SLECHTOVÁ, D., *see* BURIÁNEK, J.
SMALL, S. P., *see* SCHWER, F. W.
SMILIE, J. L. Cane spraying. (Abs.) 244
SMITH, B. A., *see* MARTIN, L. F.
SMITH, G. Industrial mycology. (B.B.) 227
SOCKHILL, B. D. and WRIGHT, P. G. Supersaturation control. (Abs.) 254
see also FOSTER, D. H.
SOKOLOVSKII, A. A. *et al.* Performance of RT diffuser. (Abs.) 195
SOLODKOVSKII, A. M. Filter-cake removal. (Abs.) 168
SORENSEN, H. G. Cane breeding at Jaroměř. (Abs.) 242
SOROKA, A. A., *see* GROKHOVSKII, A. A.
SOUCIE, S. F. and BAUER, A. J. Beet harvester cleaning and conveying unit. (Pat.) 329
PETER SPENCE & SONS LTD. Clarification. (Pat.) 53
SPRINGUEL, J., *see* LECLERC, E.
SRINIVASAN, K., *see* PANJE, R. R.
SRINIVASAN, V. R., *see* PATHAK, S. R.
STAFFORD, T. J. *et al.* Cane variety tests in Louisiana. (Abs.) 61
STAMBERG, J. and KRSKA, F. Ion exchange resin ageing. (Abs.) 321
see also VALTER, V.
STAMPER, E. R. Weed control. (Abs.) 7, 244
and ANZALONE, L. Rogueing mosaic-infected stools. (Abs.) 211
F. A. STANDEN & SONS LTD. and STANDEN, P. Beet harvester .. 295

PAGE

STANDEN, P., *see* F. A. STANDEN & SONS LTD.
STANSBURY, M. F. and HOFFPAUIR, C. L. Refined sugar syrups floc composition. (Abs.) 141
STARK, J. B. *et al.* Beet molasses non-sucrose composition. (Abs.) 293
– Molasses nitrogen compounds fractionation. (Abs.) 293
STARODUBTSEV, S. V. *et al.* Sucrose radiolysis. (Abs.) 170
STASEV, G. I. and TYAZHELOVA, G. F. Evaporator boiling-out. (Abs.) .. 104
STAUFFER CHEMICAL CO.
see FRIED, J. H.
STEFAN, H. Hydrocyclone for juice filtration. (Abs.) 104
STEFANOV, L. Colloids in beet juices .. 199
STEIB, R. J. and CHILTON, S. J. P. Ratoon stunting control with hot-air oven. (Abs.) 5
and FORBES, I. L. Cane mosaic in Louisiana. (Abs.) 209
see also FORBES, I. L.
STEINBAUER, E., *see* PREY, V.
STEINBRUNN, F. Phosphates in sugar industry. (Abs.) 224
STEINMETZER, W., *see* BÖTTGER, S.
STEPANOV, M. I. Beet mechanization 197
STEVENSON, G. C. Cane varieties in Barbados. (B.B.) 23
DUNCAN STEWART & CO. LTD. Cane mill drive. (Pat.) 110
and ARNOLD, K. S. Cane mills .. 173
STOLL, W. W. and REUTER, E. R. Beet harvester. (Pat.) 78
STOLTENBERG, D. A. Filter press (Pat.) 144
STONE, P. C. Plough spring-action presser. (Abs.) 4
STORY, C. G. Q 68 cane variety. (Abs.) 35
Rocking rakes. (Abs.) 35
STRANSKY, P. and VALTER, V. Softening thin juice. (Abs.) 102
STREET, J. Automatic control in sugar industry. (Abs.) 223
STRICH, P. P. Centrifugal. (Pat.) 112
STURGESS, O. W. Cane chlorotic streak 152
SUAREZ, L. A. Home-made flowmeter 222, 287
SUERTE, D. Philippines milling extraction. (Abs.) 99
SUGAR RESEARCH FOUNDATION INC. Carboxylic acid esters of sucrose and raffinose. (Pat.) 76
SURI, S. P., *see* KHANNA, M. L.
SUTHERLAND, G. K. Effect of polysaccharides on syrup viscosity 185
SÜTMEN, M., *see* GÜRAY, P.
SUZUKI, K. Ion exchange resin degradation. (Abs.) 192
SVANBERG, O., *see* HOFLUND, S.
SWAN, A. D. Cyclone effect in Mauritius 122, 336
Effect of drought on cane. (Abs.) 336
SWAN, J. A. and LEWIS, J. D. Redpath refinery controls. (Abs.) 132
SWEDROWSKI, A. and JAKUBOWSKI, J. Steam thermocompression at Zduny. (Abs.) 168
SZABOLCS, I., *see* PREY, V.
SZABOLCS, O. and PREY, V. Betaine determination. (Abs.) 107
see also PREY, V.
SZADKOWSKI, J. and JARZECKI, S. D.d.S. beet diffuser. (Abs.) 21
SZERECZ, L. and WERTAN, P. Sugar manufacture in East Germany 166

TABAYOYONG, F. T. and BASILA, F. A. Variety x fertilizer tests. (Abs.) 34
et al. Cane foliar diagnosis. (Abs.) 34
see also PORQUEZ, P. H.
TANAKA, T. "Amberlite IRA-401" resin service life. (Abs.) 221
TANDON, J. N., *see* LAL, K. N.
TARANOVA, L. D., *see* SIKIRYAVYI, A. G.
TAUFEL, K. and RUTTLOFF, H. Oligosaccharides hydrolysis. (Abs.) .. 142
TEAGUE, H. J., *see* CARRUTHERS, A.
TEOZE, M. and VUKOV, K. Continuous beet diffusion. (Abs.) 353
see also HABERÉNYI, K.
TEMPLE, R. F., *see* MORGAN, J. D.
TERANISHI, R., *see* MORGAN, A. I.
TEREK, L. Sugar and juice purity dependence. (Abs.) 193
TESCHNER, F. New clarifying precipitant for polarization. (Abs.) 142
and AHLERS, H. Dextran and beet juice purification. (Abs.) 47
TEUBER, W. Oil firing. (Abs.) 166
THAMPY, R. T. and KULOOR, N. R. Sugar by-products. (Abs.) 172

INDEX

PAGE

THILLET, F. J., *see* WILLET, H. A.
THOMSEN, A. M. Molasses desugaring 265
TIBENSKY, V. *et al.* Predefecation column operation. (Abs.) 257
see also KOHN, R.
TIPSON, R. S. *see* WOLFROM, M. L.
TISZAVÁRY, O., *see* EMŐDI, F. *and* PAULIK, I.
TOMCZYNSKI, W., *see* LEKAWSKI, J.
TOMECEK, A., *see* PAVLAS, P.
TONN, H. Preheating section of evaporators. (Abs.) 50
TOOHEY, C. L. Cane black beetle control. (Abs.) 212
TÓTH, Z. I. D.d.S. diffuser. (Abs.) 166
Microbiological control. (Abs.) 324
Reducing viscosity during boiling 49
TOUEY, G. P. and DAVIS, H. E. Mixed glucose-sucrose esters. (Pat.) .. 265
TRET'YAKOV, V. N. Automatic beet scales. (Abs.) 195
Evaporator cleaning. (Abs.) 225
TRET'YAKOVA, G. S., *see* GOLOVIN, P. V.
TROINO, V. P., *see* VAISMAN, M. L.
TROMP, L. A. Cane mill hydraulic gear 91, 123
Cane storage 39, 66
TSENG, C. F. Taiwan mill capacity .. 135
TSIRUL', V. A. Calcium and sodium in beet and molasses. (Abs.) 358
see also BENIN, G. S.
TSIZIN, S. G. Faulty sugar equipment 138
TSUCHIYA, H. M., *see* HEBRE, E. J.
TSUTSUMI, C., *see* NAGAHARA, T.
TSYGANKOV, V. N. Chinese sugar production. (Abs.) 134
TYAZHELOVA, G. F., *see* GRISHCHENKO, E. M. *and* STASEV, G. I.

UGARTE, M., *see* APPLING, J. W.
FRIEDRICH UHDE G.m.b.H. Sugar from beet and molasses. (Pat.) 76
DE ULLIVARI, R. F. and GUERINEAU, C. M. Early maturing cane varieties in Argentina. (Abs.) 7
ULRICH, A. and OHKI, K. Sucrose content of frozen stored beet pulp. (Abs.) 359
UMAROV, D. U. and ZELIKMAN, I. F. Affination. (Abs.) 132
UNITED STATES SECRETARY OF AGRICULTURE, *see* HEBRE, E. J.
URETA, S. Z. Bulk handling in Philippines. (Abs.) 320
USINES DE MELLE. Alcohol production 232

VAISMAN, M. L. *et al.* Scale removal with ultrasonics. (Abs.) 190
– Tsins vacuum pan. (Abs.) 134
VAJDA, O. Bacterial testing methods Micro-organisms. (Abs.) 74
and ZÁGON, T. Pump for diffuser disinfection. (Abs.) 167
see also HABERÉNYI, K.
VAJNA, S. Carbonate process. (Abs.) 49
Wilting of beet. (Abs.) 354
VAJNA-PAPP, M. Beet respiration rate and sugar loss. (Abs.) 193
VALKOVSKY, E. Carbonatation juice carbonate content. (Abs.) 108
Juice purification at Selyp factory 142
VALLANCE, L. G. Cowpea-velvet bean mixture as fertilizer. (Abs.) 49
VALTER, V. Colour determination .. 35
Physical chemistry in sugar technology. (Abs.) 359, 360
and BOUCEK, S. Carbonatation mud removal by hydrocyclone. (Abs.) 199
et al. Effect of activation on resin decolorizing capacity. (Abs.) .. 101
see also BOUCEK, S., MENCL, Z. *and* STRANSKY, P.
VAN BUSKIRK, E. M. Cane harvester feeder. (Pat.) 20
C. VAN DER LELY N. V. Beet harvester 145
Beet thinner. (Pat.) 361
VAN DER POEL, P. W., *see* ASSELBERGS, C. J.
VANDEWIJER, R. Beet juice floc separation. (Abs.) 231
VAN GINNEKEN, J. G. J. Molasses animal fodder. (B.B.) 322
VAN SCHUYLENBORGH, J., *see* HONG, G. B.
VASÁTKO, J. and KOHN, R. Beet juice purification. (Abs.) 197
see also KOHN, R. *and* TIBENSKY, V.
VÁSQUEZ D., A. Granular carbon at Independencia refinery. (Abs.) .. 19
287

PAGE

VASUDEVA, R. S. *et al.* Cane red rot organism mutation. (Abs.) 287
VÁVRA, F., *see* MENCL, Z.
VAVRINECZ, G. Brix of impure sugar solutions. (Abs.) 154
Salts effect on sucrose rotation .. 74
Sucrose solubility. (Abs.) 261
Sugar thermal decomposition rate 326
VÁZQUEZ, E. A. Paper pulp from bagasse. (Abs.) 326
DE LA VEGA, J. R. Pre-clarification .. 143
VELLARD, J. Glutamine and sucrose in beet. (Abs.) 100
VICIEDO P., E. Cane juice fermentation 49
VIGNES, E. C. and DE FROBERVILLE, R. Polyelectrolytes in clarification 75
VILLAR L., U. Cane mill settings (Abs.) 288
Continuous clarifiers. (Abs.) 46
VILLAREAL, E. P. and SANTOS, O. Effect of gibberellic acid on cane growth. (Abs.) 288
VISHNU, –, *see* RAMAIAH, N. A.
LANDBOUWWERKTUIGEN EN MACHINEFABRIEK H. VISSERS N. V. Beet thinner. (Pat.) 34
VITON, A. and PIGNALOSA, F. World sugar consumption 231, 295
VODOLAZSKAYA, L. A. and MOLCHADSKII, M. T. Raffinose in refinery molasses. (Abs.) 284
VOGT, R. W. "Thermit" welding. (Abs.) 168
VOLOKHVYANSKII, V. M. Beet diffusion kinetics. (Abs.) 256
Carbonatation juice ion exchange treatment. (Abs.) 167
VOLP, P. Q 66 cane variety. (Abs.) 20
VON LILLIENSKIOLD, M. Beet molasses evaluation. (Abs.) 35
VON MILDENSTEIN, M. Concrete corrosion protection (Abs.) 225
VOROB'EVA, E. A., *see* KHELEMSKII, M. Z.
VRABLIK, E. R. *see* SAVOIE, C. C.
DE VRIES, G. H. Sucrose crystal growth 225
VUKOV K. Beet sugar losses. (Abs.) 230
Hot predefecation. (Abs.) 226
Lactic acid in beet juices. (Abs.) .. 324
see also HABERÉNYI, K., LEELŐSSY, K. *and* TEGZE, M. 260

WADDEY, W. E., *see* MORWAY, A. J.
WAGNEROWSKI, K. *et al.* Low-product massecuite crystallization. (Abs.) 225
WALCHANDNAGAR INDUSTRIES LTD., *see* DUBEY, R. S.
WALERIANCZYK, E. *et al.* Juice ion-exchange treatment. (Abs.) 102
see also KOPERA, K.
WALKER, B. Soil water content and cane growth. (Abs.) 336
WALKER, T. K., *see* GAD, A. M.
WALLACE, G. A. Massecuite resistance heating. (Abs.) 254
WALLACE, H. D., *see* COMBS, G. E.
WALLENSTEIN, H. D. Volatile acids in beet juices. (Abs.) 142, 198
and EGLER, H. Volatile acids separation from beet juices. (Abs.) 199
WATERMAN, H. I. Beet juice purification. (Pat.) 145
Cane and beet treatment with SO_2 and $CHCl_3$. (Pat.) 206
see also ASSELBERGS, C. J. *and* BOELHOUWER, C.
WATT, E. C. and WATT, L. A. Cane unloader. (Pat.) 265
WATT, L. A., *see* WATT, E. C.
INGENIORSFIRMAN NILS WEIBULL A. B. *see* WEIBULL, N. R. M.
WEIBULL, N. R. M. Bulk sugar silo .. 296
WEIDENHAGEN, R. and SCHIWECK, H. Raffinose in molasses. (Abs.) .. 106
WEIDENHOF, N. Cane wax analysis .. 143
WELLER, L. G. Sugar bulk transport 78
WELLS, W. D. Raw sugar filtrability 261
WEMAN, N. Micro-organisms in Swedish sugar. (Abs.) 165
WENKING, H. Photo-electric polarimeter. (Pat.) 295
WERNER, E. Defecation mud sweetening-off. (Abs.) 48
WERNER, J. and HESSEL, F. A. Sugars esterification in butyrolactone .. 296
WERTAN, P., *see* SZERECZ, L.
WESTERN STATES MACHINE CO. Centrifugal battery control. (Pat.) 295
Centrifugal loading gate. (Pat.) 294
see also HERTRICH, J. T
WESTGATE, R. Chinese sugar industry 352
WETHERS, J. D., *see* HAWAIIAN DEVELOPMENT CO. *and* KNAPP, S. B.
WIGGINS, L. F., *see* MORGAN, J. D.

PAGE

WIGHTMAN, G. W. and SARANIN, A. P. Progressive defecation. (Abs.) .. 254
WILLETT, H. A. and THILLET, F. J. Cane cleaning at Central Cortada 190
WILLIAMS, J. R. Nematodes in Mauritius. (Abs.) 276
WILSON, J. Cane trashing. (Abs.) 305
WINKLER, S. Lime kiln operation .. 47
Stone-catcher. (Abs.) 196
WINTER, G. O. San Salvador refinery 352
WISE, W. S. Sucrose solubility determination. (Abs.) 24
Sugar technology research. (Abs.) 253
WITHERS, R. M. J. and RICH, J. E. A. Automatic control in British Sugar Corporation. (Abs.) 323
WLASSICS, Z. "Kristalloskop" pan instrument. (Abs.) 323
WÖHLERT, W. Beet laboratory equipment. (Abs.) 290
see also RÖSTEL, H. J.
WOLD, R. L. Cane agriculture organization. (Abs.) 181
WOLFROM, M. L. and TIPSON, R. S. Carbohydrate chemistry advances 140
WOLLOSIECKI, S. "Steelon" filter cloths 139
WOOD, J., *see* DOUGLAS, J. E.
WOODS, B. M., *see* ANDREWS, P.
WRIGHT, P. G., *see* FOSTER, D. H. *and* SOCKHILL, B. D.
WU, C. C., *see* HSIEH, P. T.
WU, S. Bagasse pulp production. (Abs.) 263
WYSS, O. Bagasse board manufacture in Taiwan. (Abs.) 172

XIEZOPOLSKI, K. By-products from beet molasses. (Abs.) 109

YAKIMOV, A. F. Carbonatation. (Abs.) 356
YAKOVENKO, A. G., *see* MAKAREVICH, L. F.
YAMAGA, J. Carbonatation pH automatic control. (Abs.) 192
YAMANE, T. Sugar Plant Guide Book and ONDA, F. Colour in refinery liquors. (Abs.) 169
see also KAMODA, M.
YAMKOVOI, I. F. Factory equipment defects. (Abs.) 200
YANG, C. S. *et al.* Bunch planting of cane. (Abs.) 225
YANG, P. C., *see* LI, H. W. 31

ZABOLOTSKAYA, A. M. Intercrystalline molasses viscosity. (Abs.) 72
ZÁGON, T., *see* VAJDA, O.
ZAGORUL'KO, A. Y. Beet cossette surface and thickness determination. (Abs.) 359
see also KOVAL', E. T.
ZAGRODZKI, S. Optimum campaign length in Poland. (Abs.) 323
and DOBRZYCKI, J. Beet flow control. (Abs.) 104
and ZAORSKA, H. Boiler feed water salt traces. (Abs.) 108
– Sugar losses in carbonatation muds. (Abs.) 71
ZAJIC, J. Reducing sugars determination. (Abs.) 74
ZAKHAROV, K. P. Molasses nomogram 258
ZAMBONELLI, C. Levulose-fermenting bacterium in raw juice. (Abs.) 50
ZAMBROVSKII, V. A. Hydrocyclones for lime. (Abs.) 72
ZAORSKA, H., *see* ZAGRODZKI, S.
CARL ZEISS, *see* WENKING, H.
ZELBA, B. and ROPA, C. Werkspoor crystallizers. (Abs.) 48
ZELIKMAN, I. F. Calculation of water in refinery magma. (Abs.) 321
Yellow sugar production. (Abs.) .. 258
see also UMAROV, D. U.
ZENKER, B., *see* SCHNEIDER, F.
ZHALOV, B. S. Juice settling with polyacrylamide. (Abs.) 225
ZHIZHINA, R. G., *see* KARTASHOV, A. K.
ZHUK, V. L., *see* MAKAREVICH, L. F.
ZHURA, K. D. Filtration and clarification tests. (Abs.) 258
ZHURAVLEV, A. M., *see* ZHURAVLEVA, Z. D.
ZHURAVLEVA, Z. D. and ZHURAVLEV, A. M. Pulverizers. (Abs.) 224
et al. Hydrocyclone treatment of milk-of-lime and juice. (Abs.) .. 194
ZIEGLGÄNSBERGER, G. Boiler feed water sugar determination. (Abs.) 290
ZINGEL', I. E. Filter mud washing .. 258
ZUBOV, A. Y., *see* DYKHNE, S. V.